

FIG. 1A (Prior Art)

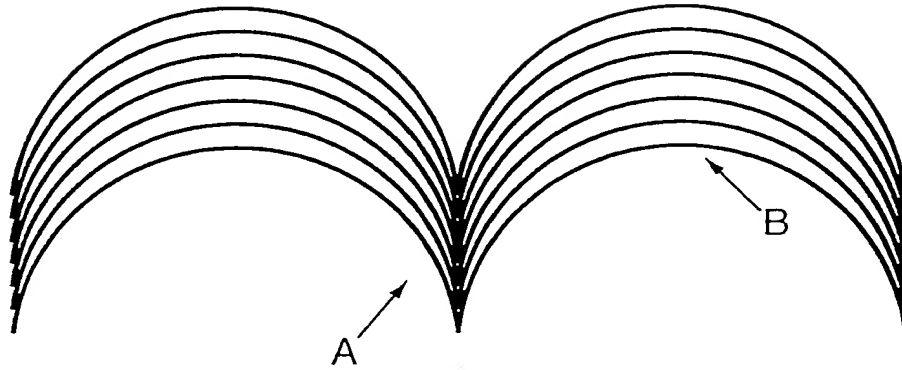


FIG. 1B (Prior Art)

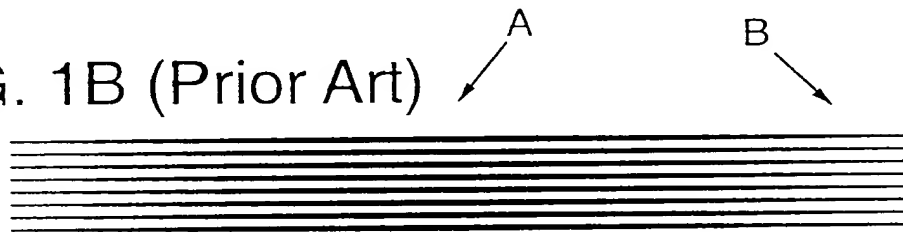


FIG. 2

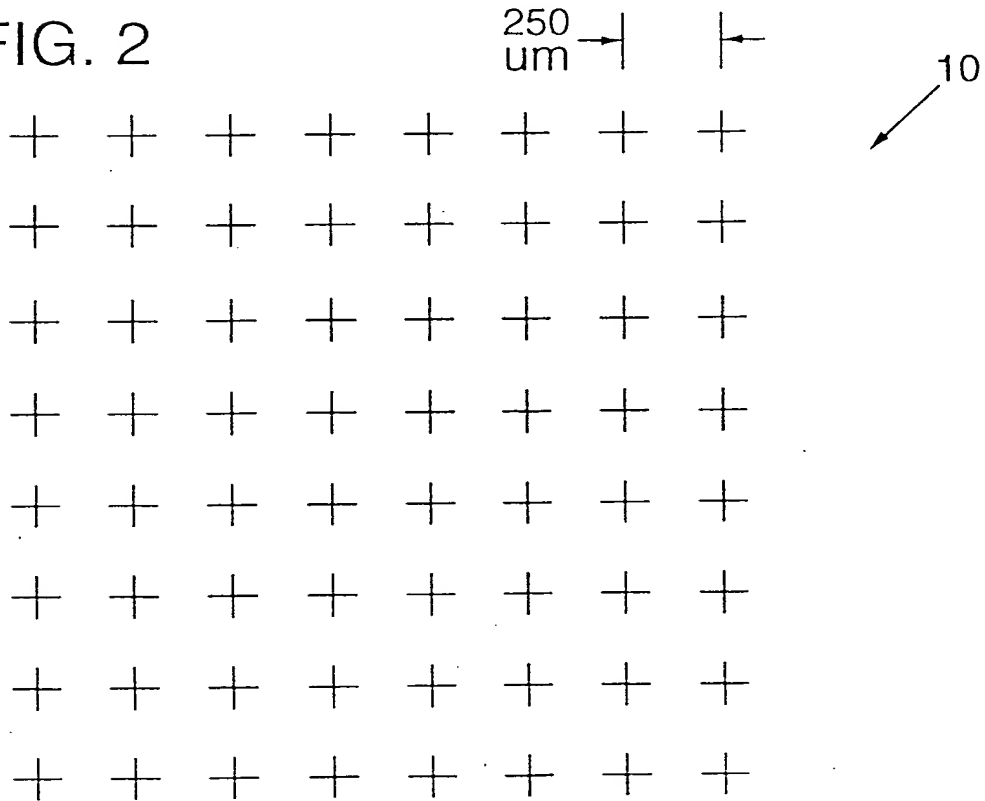


FIG. 3

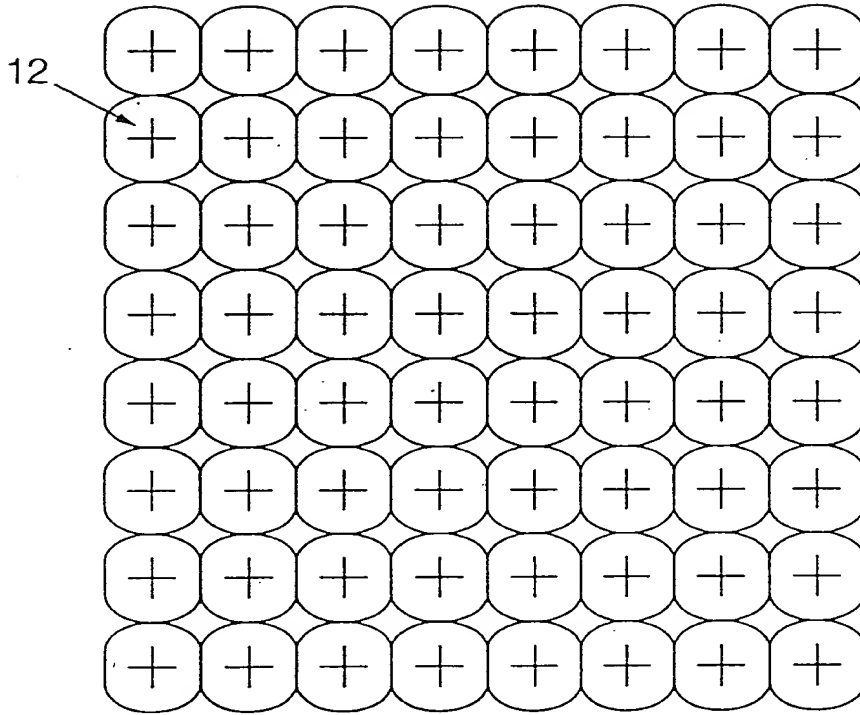


FIG. 4

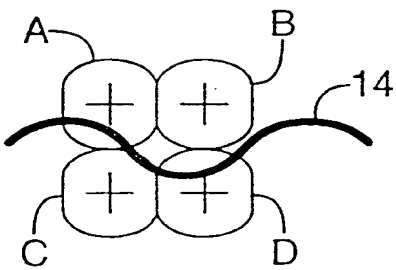


FIG. 5

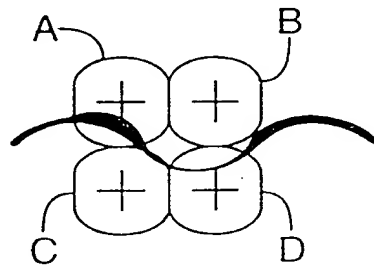


FIG. 6

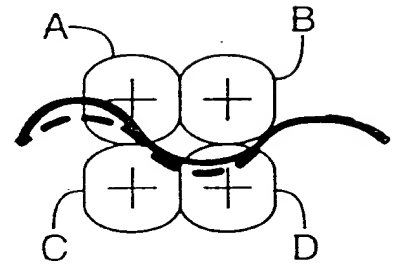


FIG. 7A

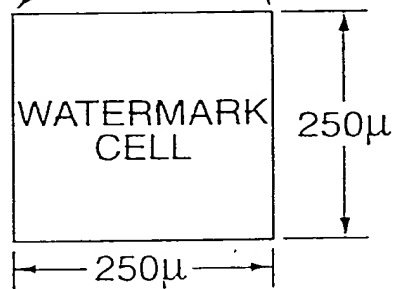
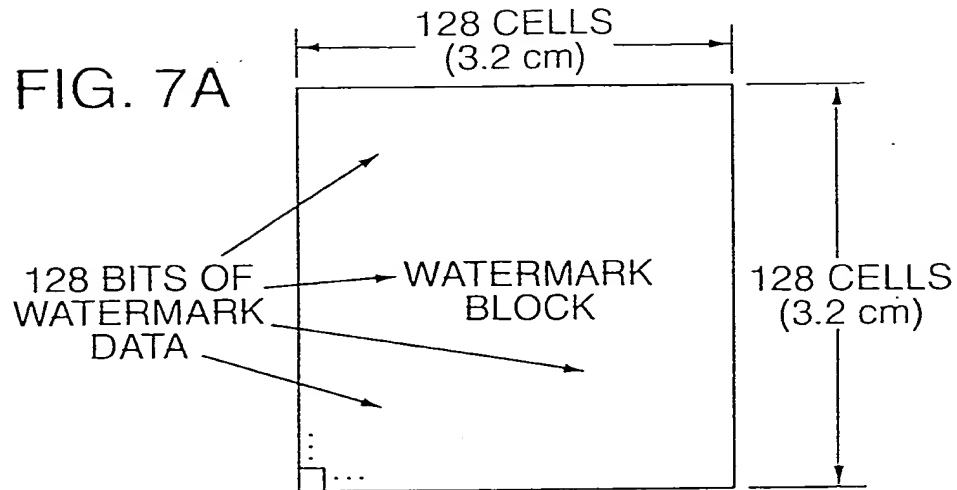


FIG. 7B

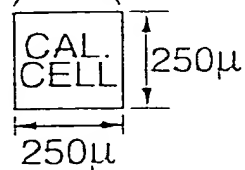
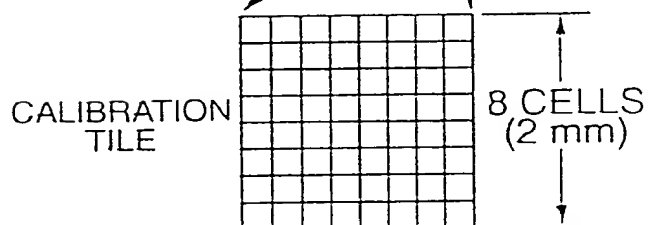
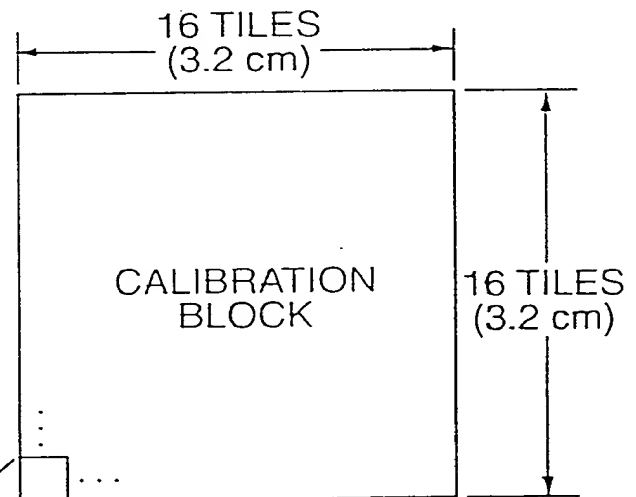


FIG. 8

204	211	212	214	213	207	215	214
204	215	202	205	209	205	213	202
212	207	203	214	203	206	202	215
209	201	211	201	212	204	200	203
208	204	212	206	207	203	205	202
209	214	207	207	211	201	206	213
208	212	206	211	213	208	206	213
209	208	202	202	205	205	205	211

REFERENCE GREY-SCALE CALIBRATION TILE

FIG. 12

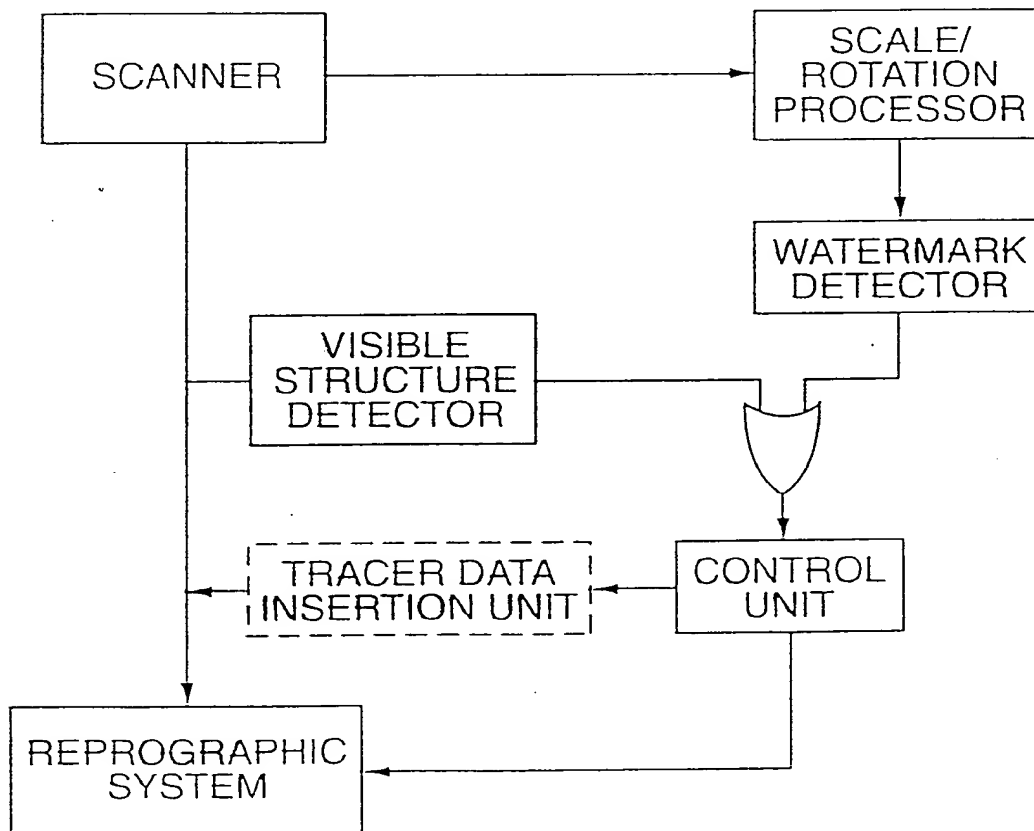


FIG. 9A

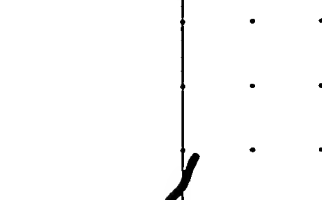

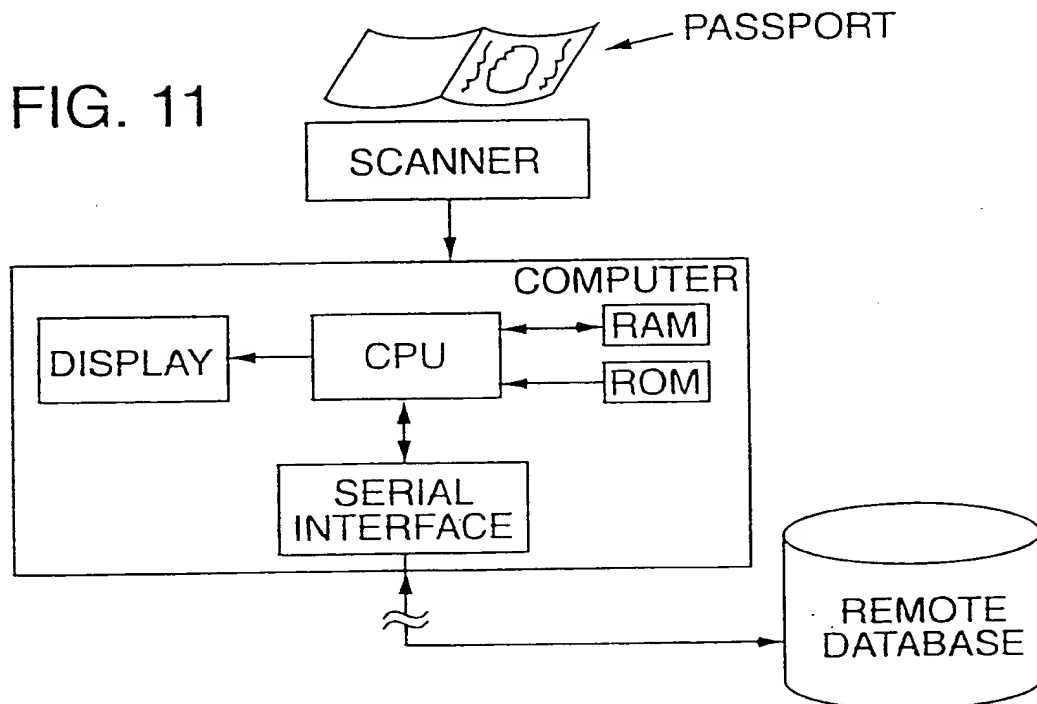
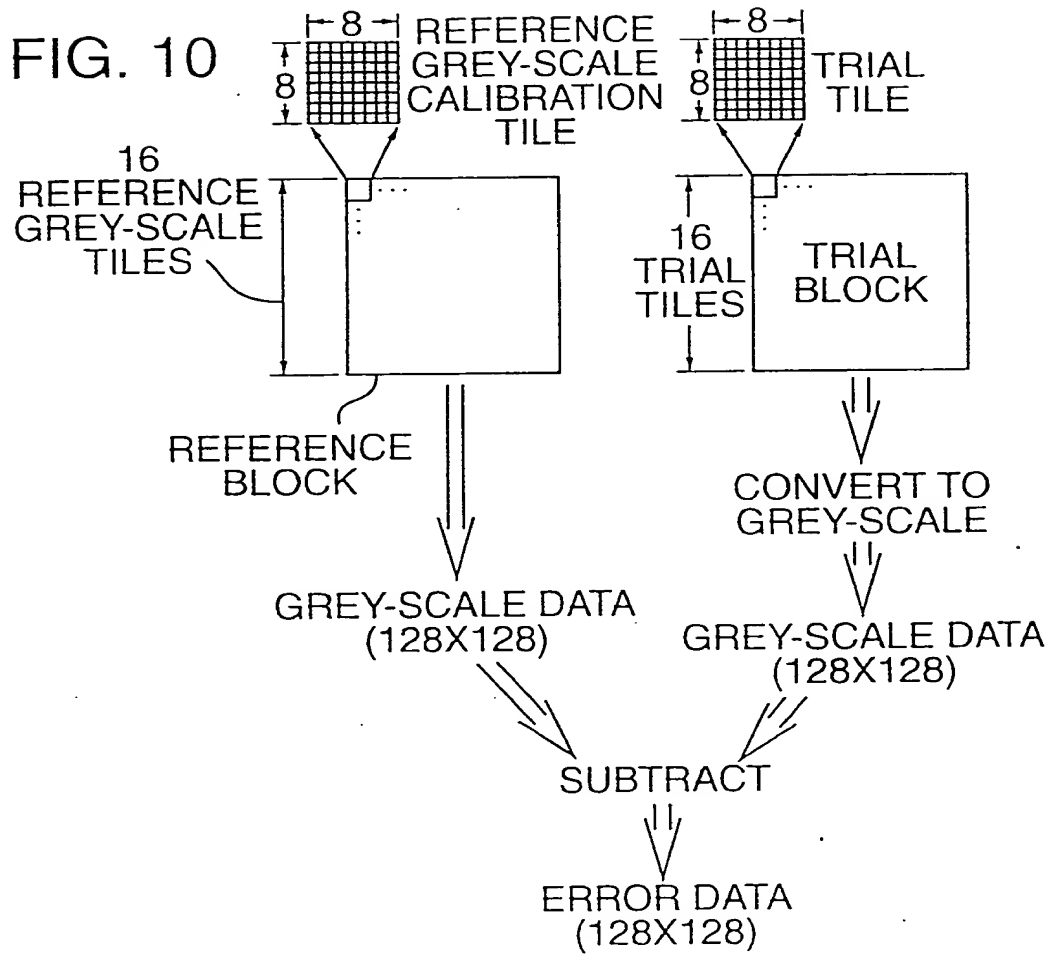


FIG. 9B

A square frame containing a 6x6 grid of small dots. A thick, irregular black line starts at the top-left corner, moves right along the top edge, then turns down and zig-zags towards the bottom-right corner, ending near the bottom-right corner. Several short, curved black lines are scattered around the perimeter of the grid.

FIG. 9C

A schematic diagram showing a complex, interconnected network of thick black lines. The lines are highly branched and tangled, forming a dense, irregular pattern that fills the right half of the image. The lines vary in thickness and have a slightly irregular, hand-drawn appearance.



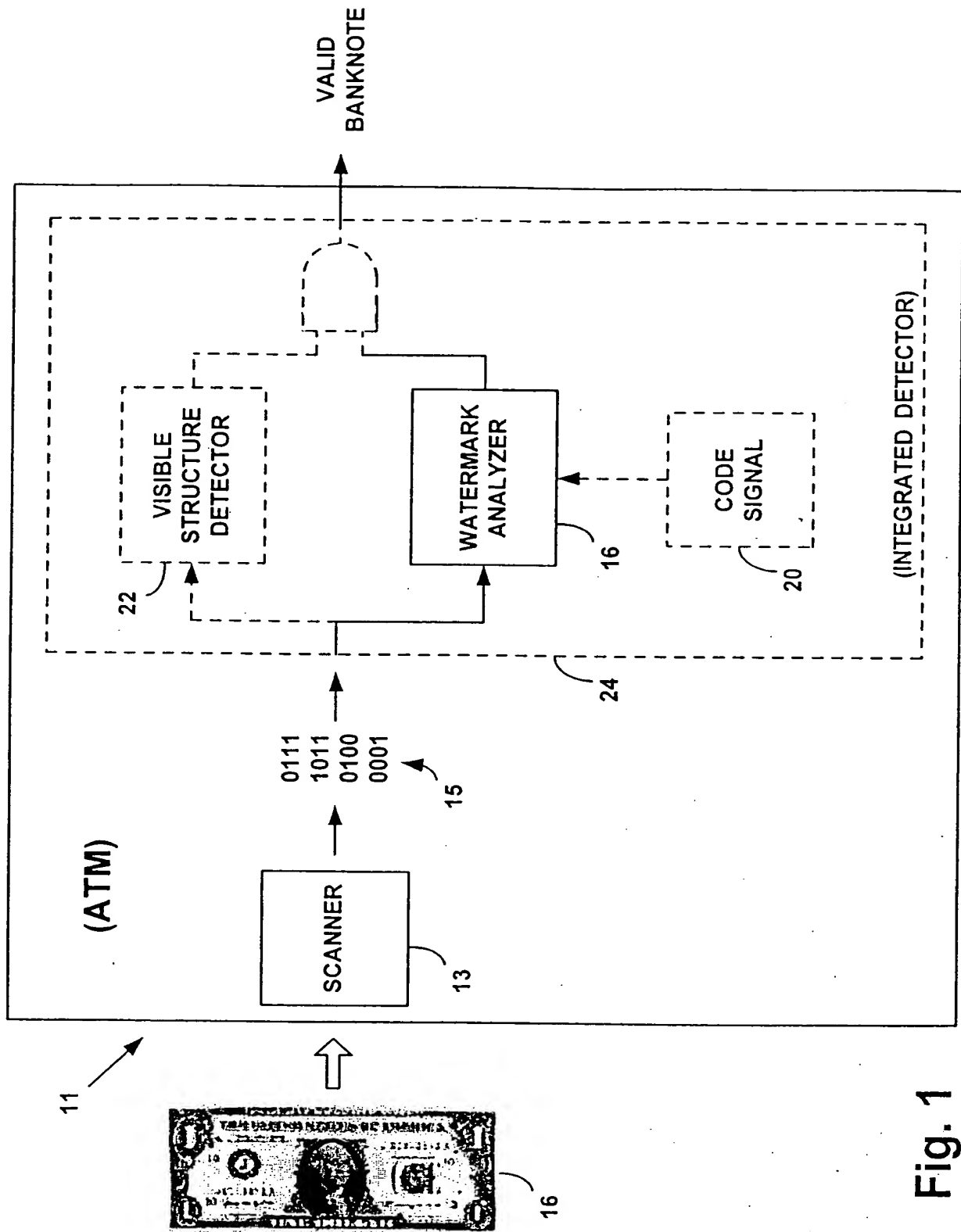


Fig. 1

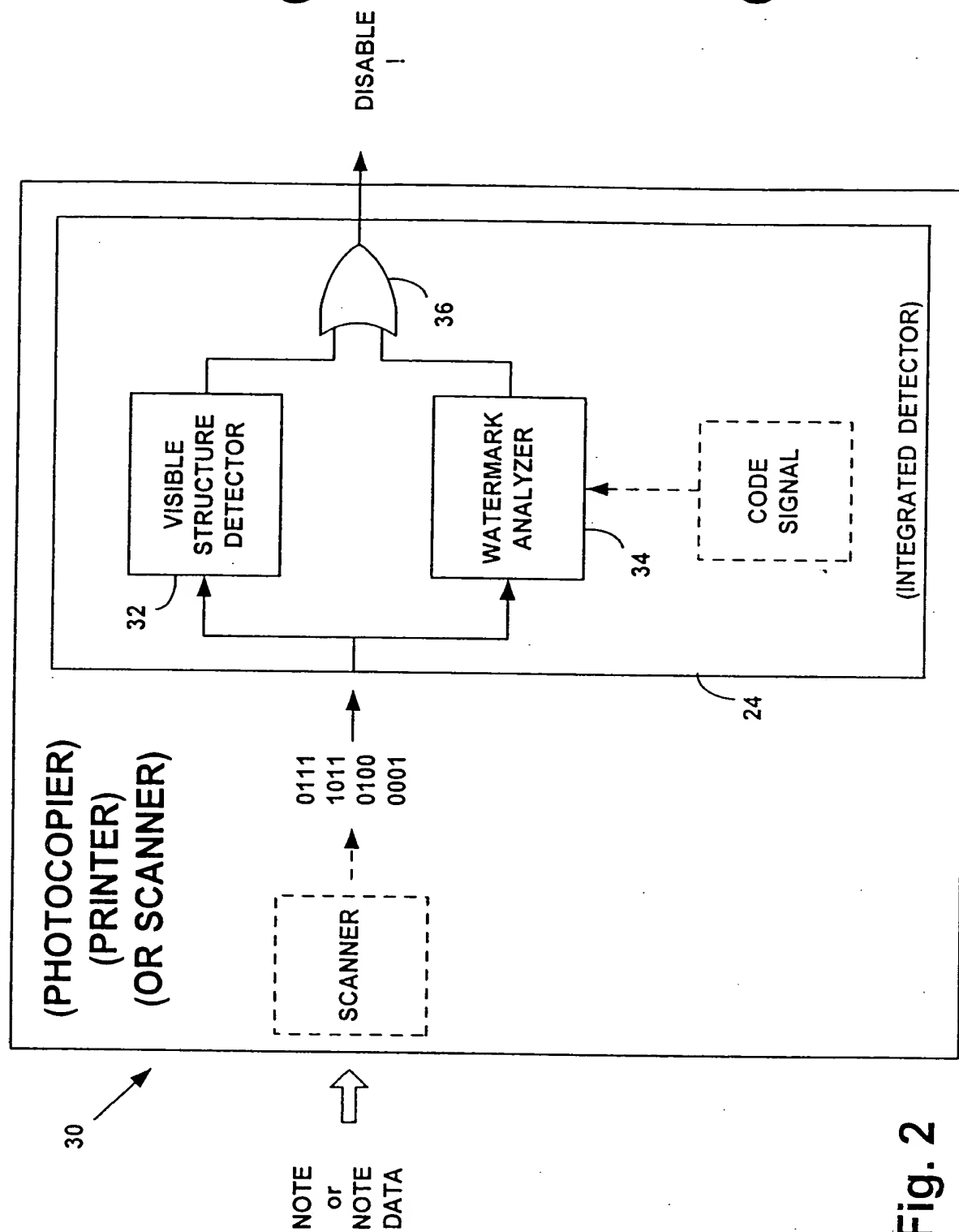


Fig. 2



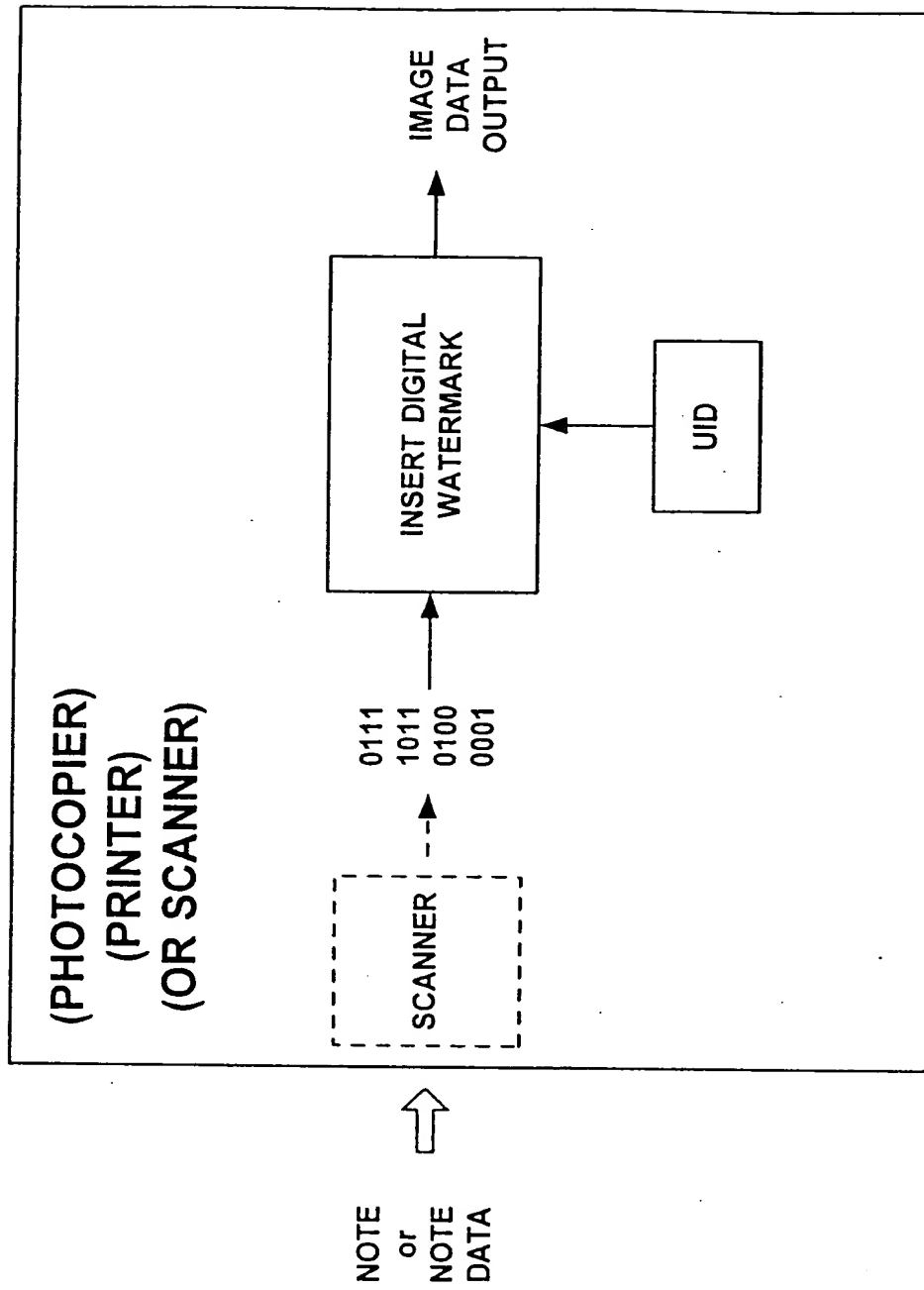


Fig. 3

FIG. 1

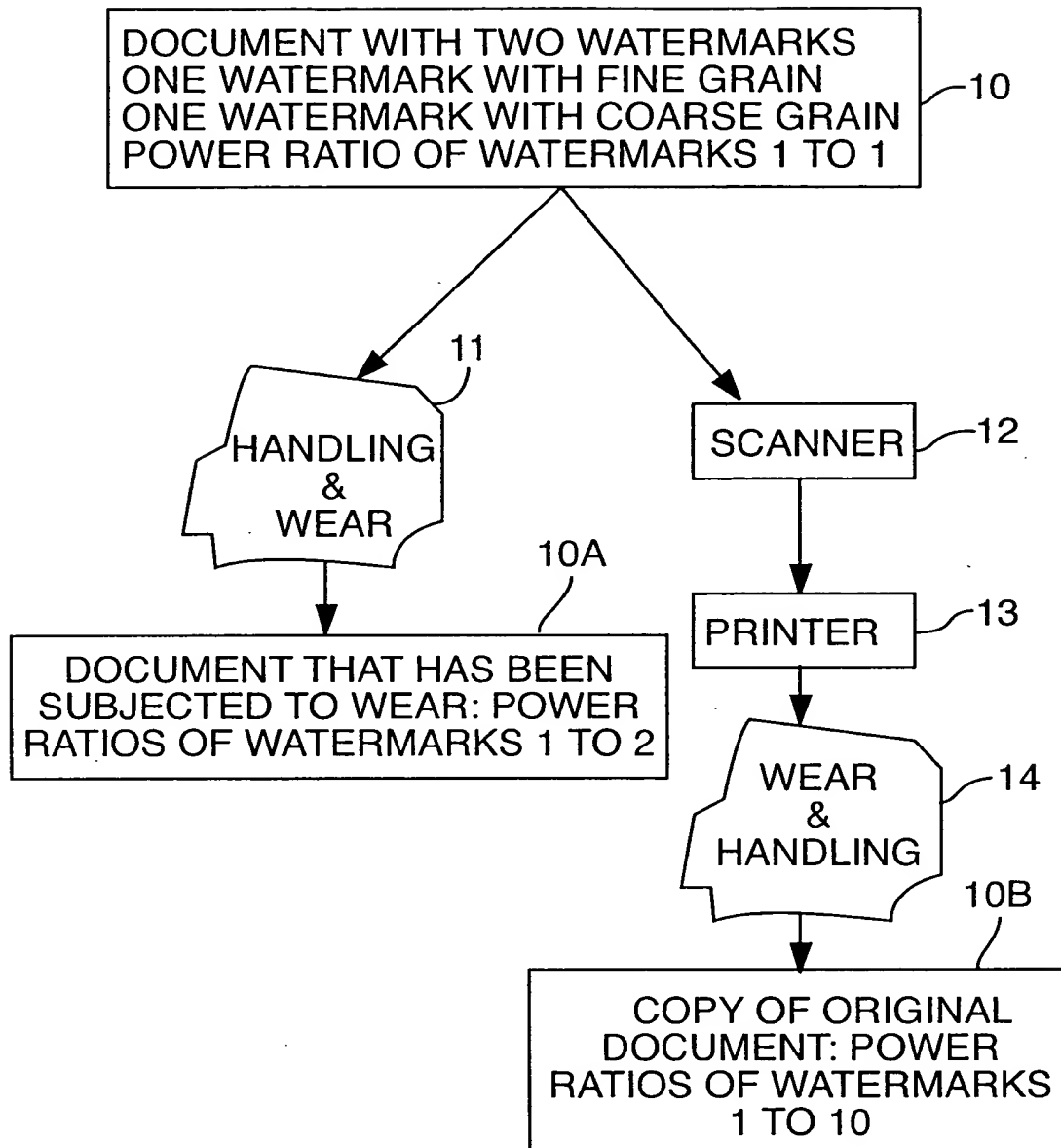


FIG. 1

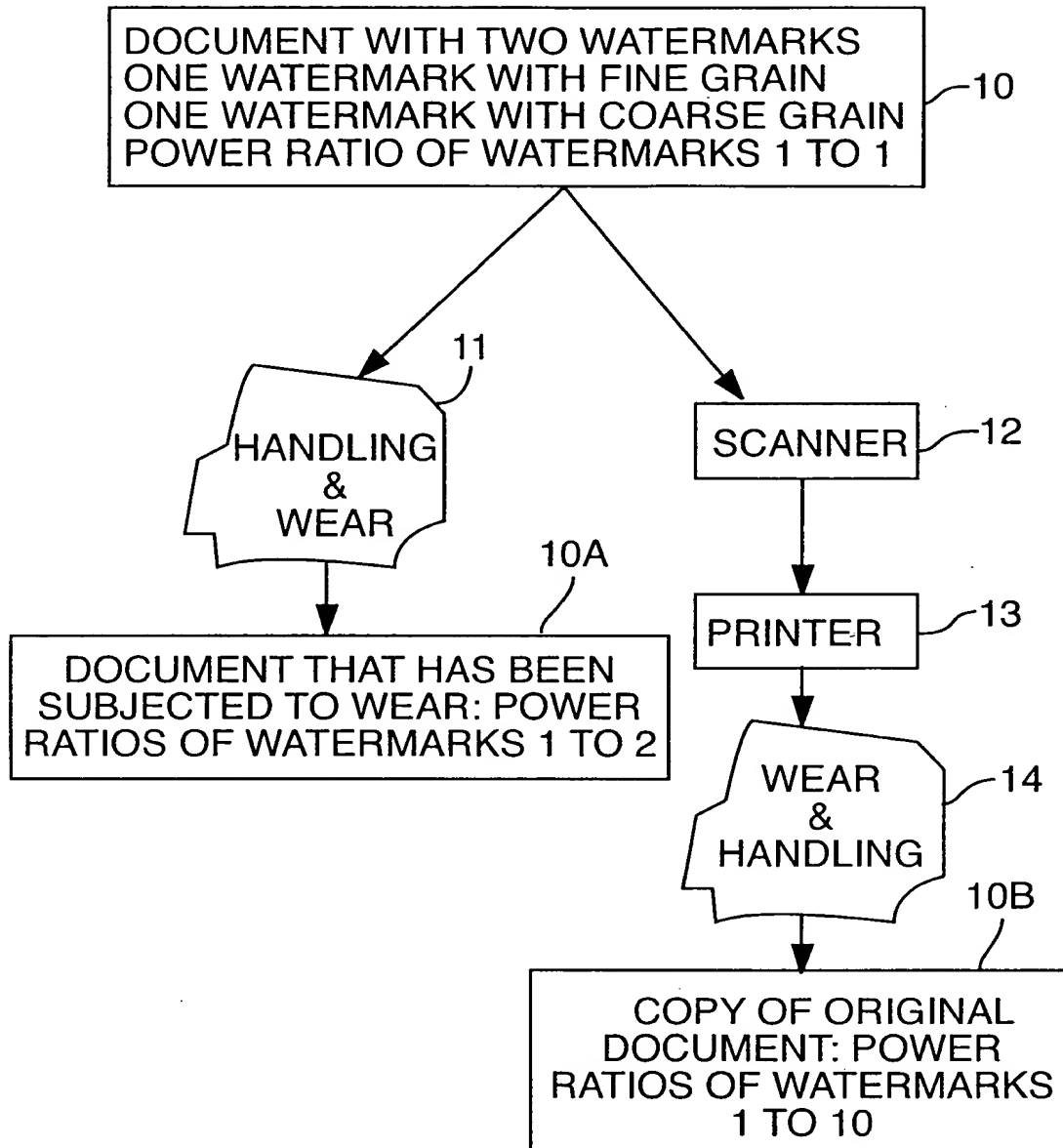


FIG. 1

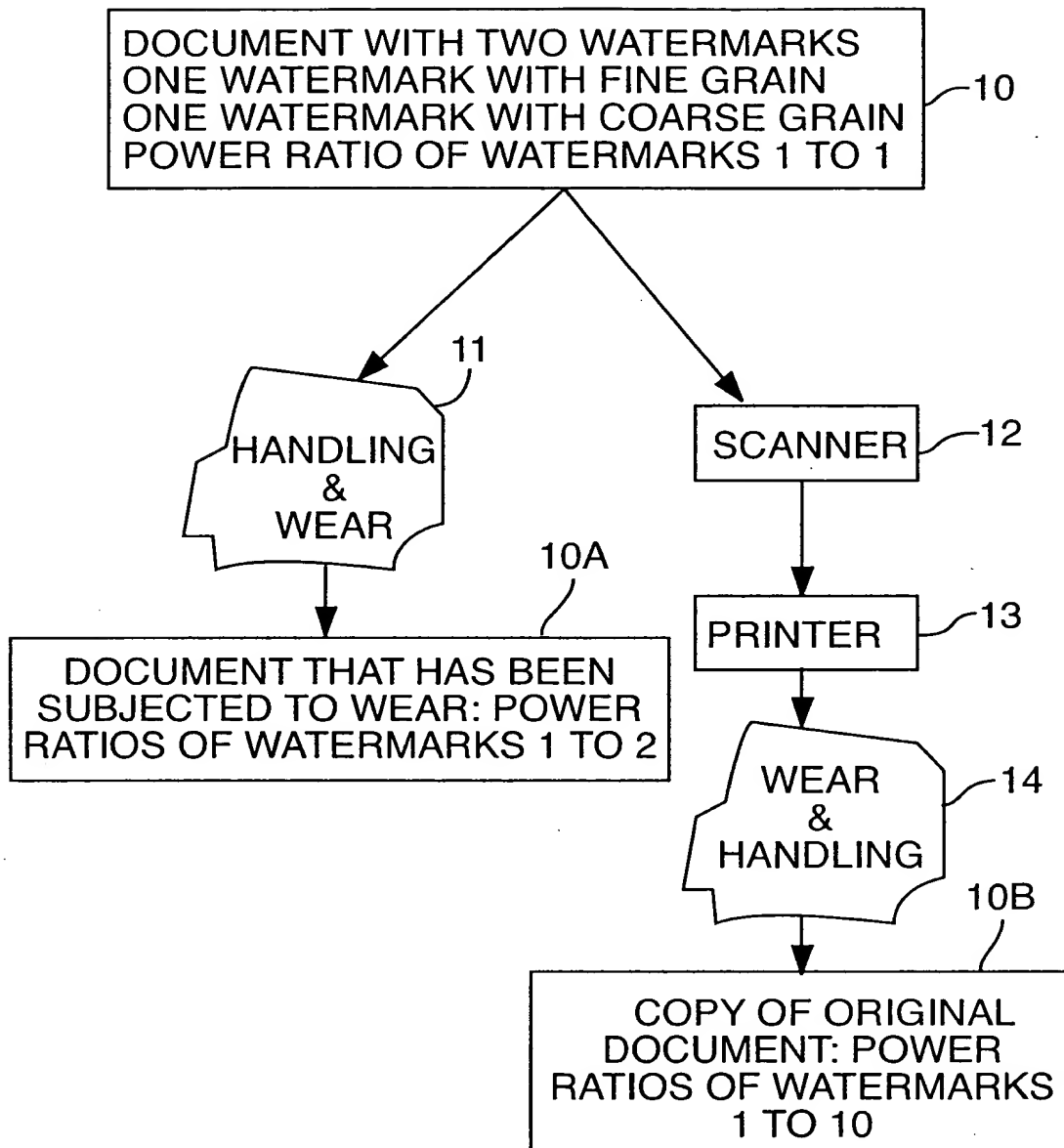


FIG. 1

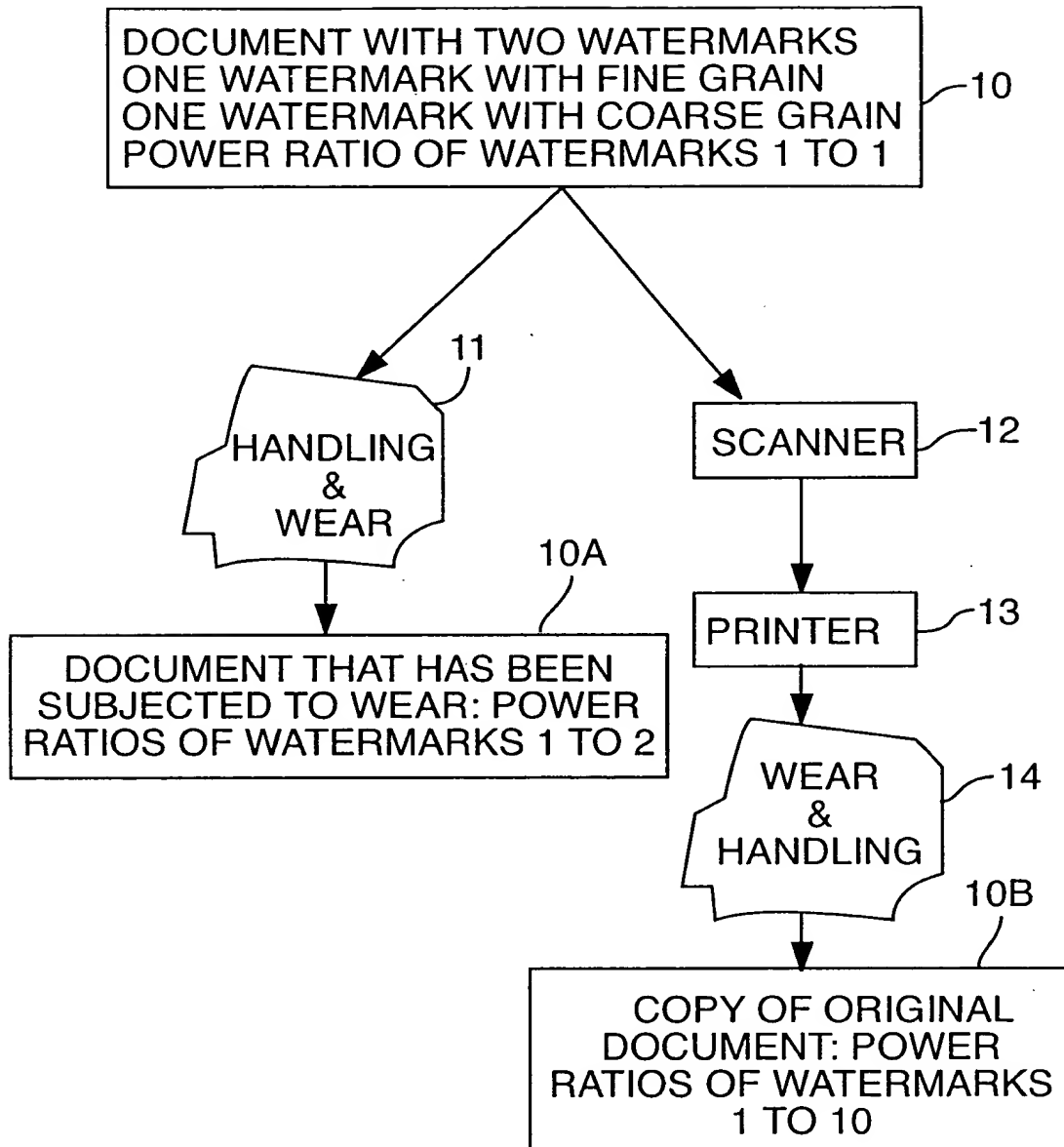


FIG. 2A

WATERMARK WITH A FINE GRAIN  
(EACH BLOCK OF PIXELS IS 3X3)

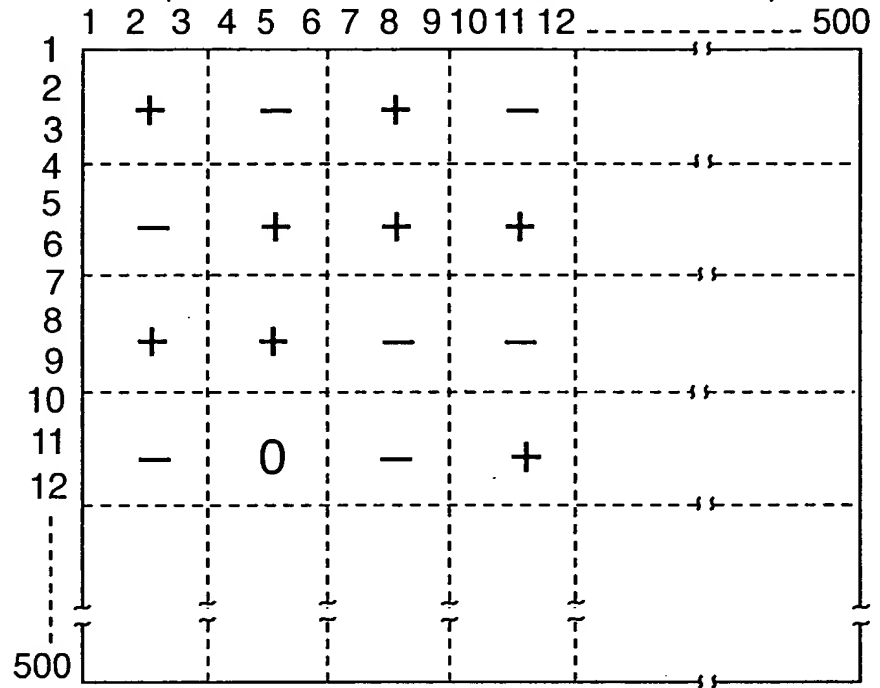


FIG. 2B

WATERMARK WITH A COARSE GRAIN  
(EACH BLOCK OF PIXELS IS 6X6)

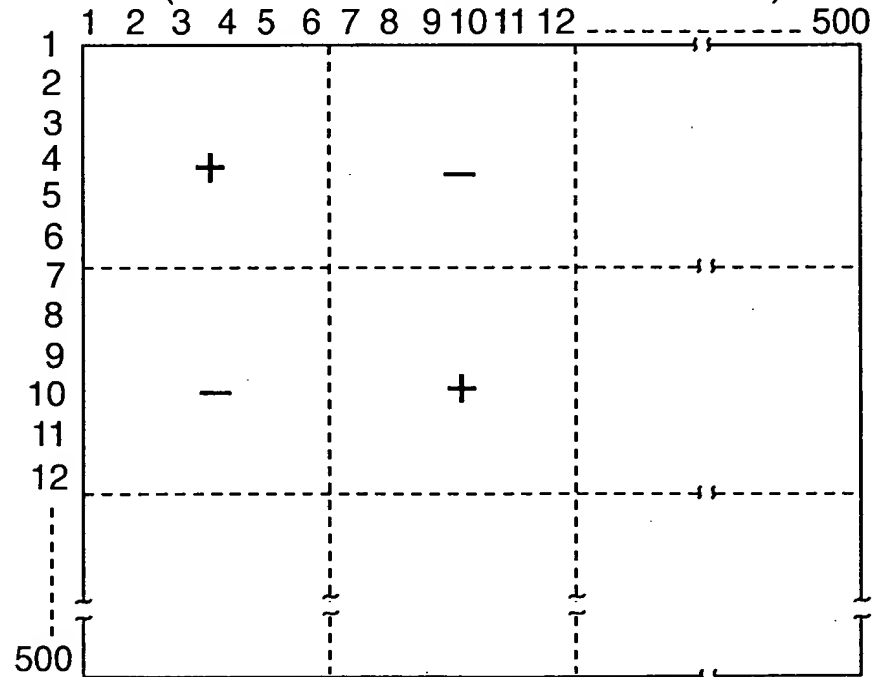


FIG. 2A

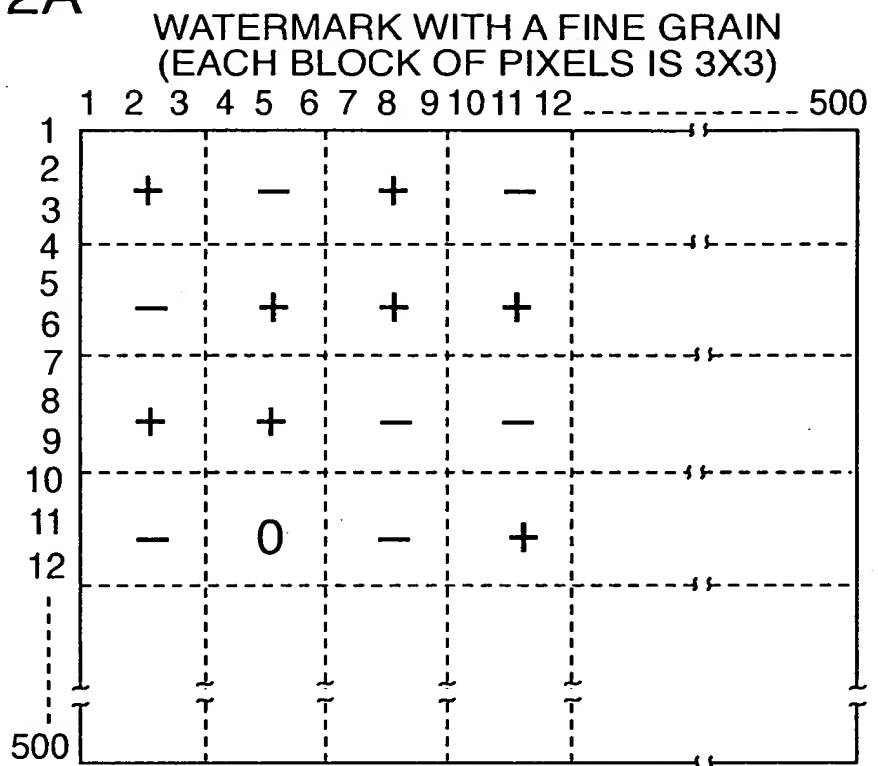


FIG. 2B

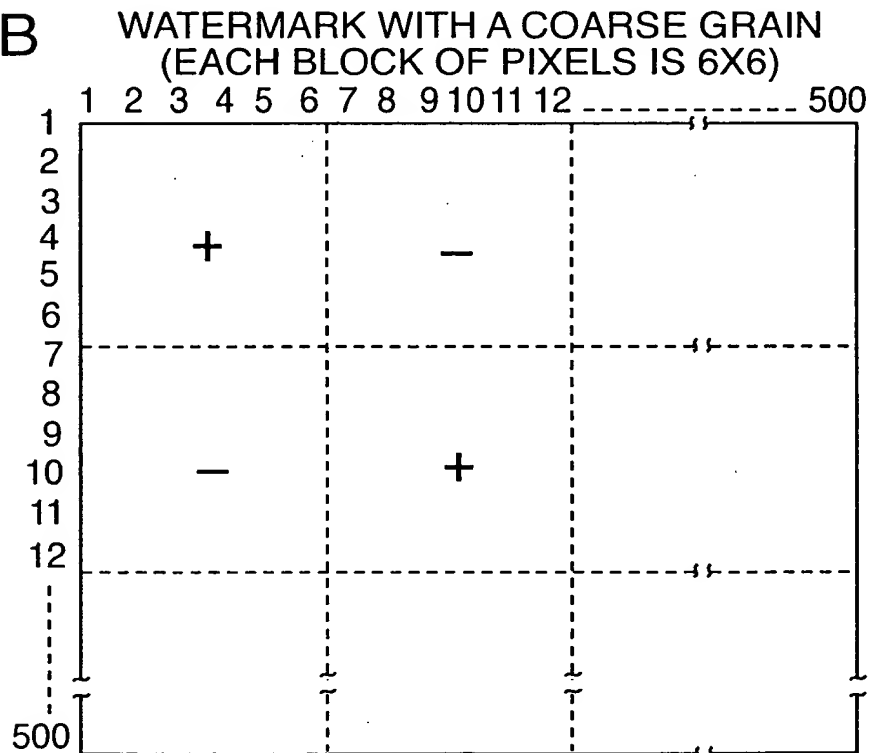


FIG. 2A

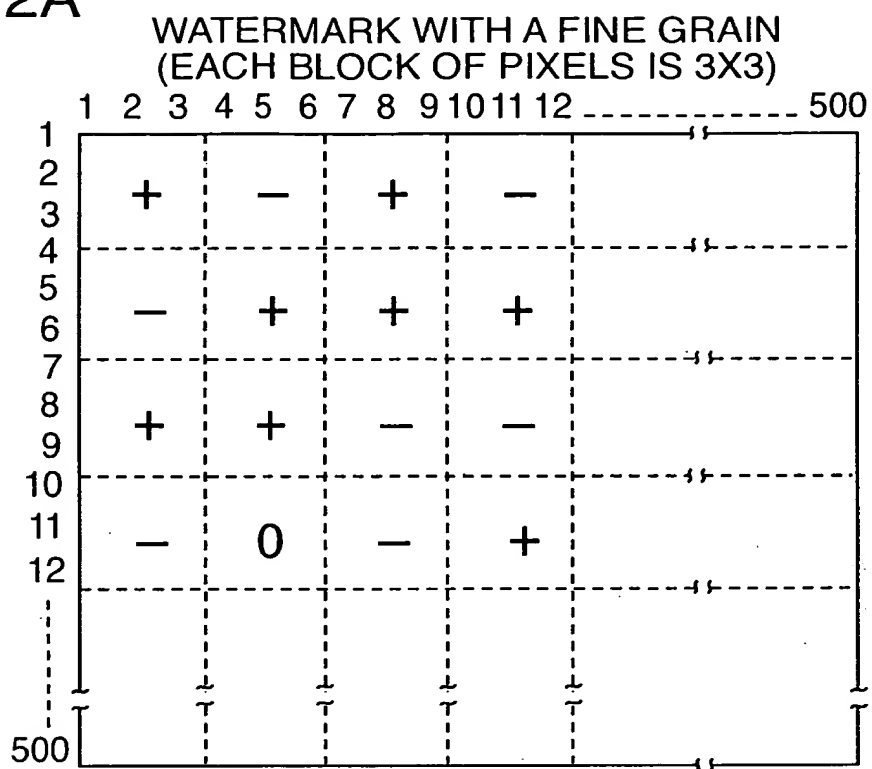


FIG. 2B

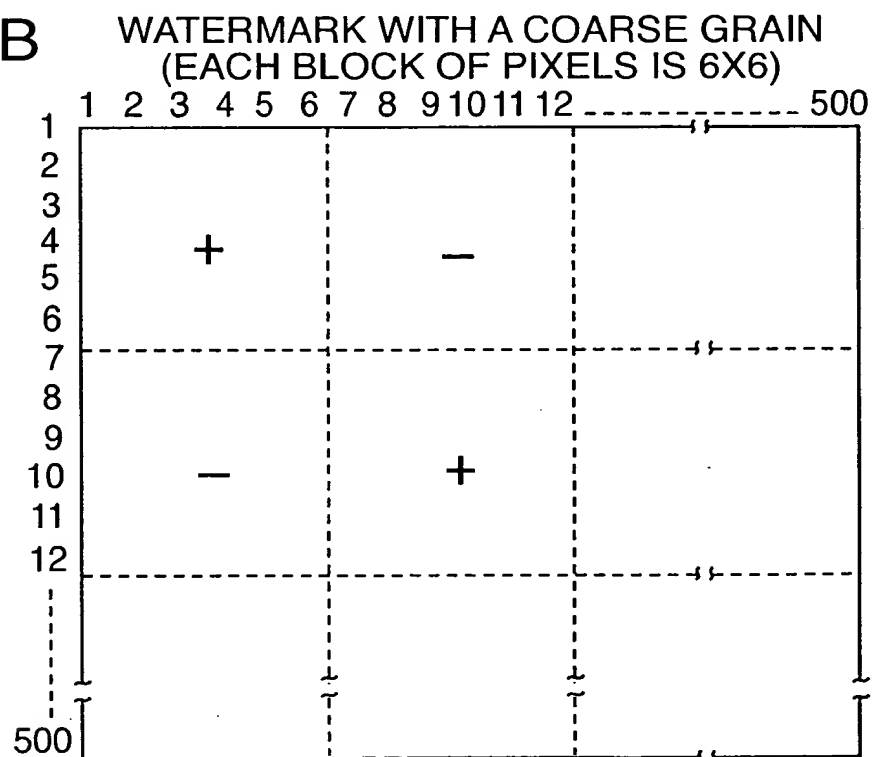




FIG. 2A

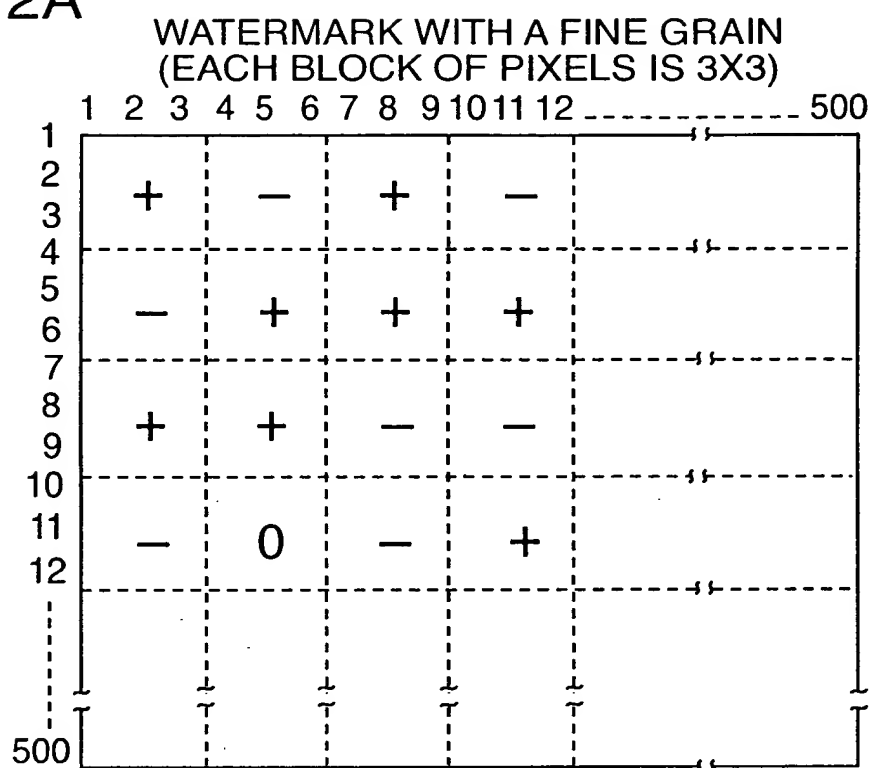
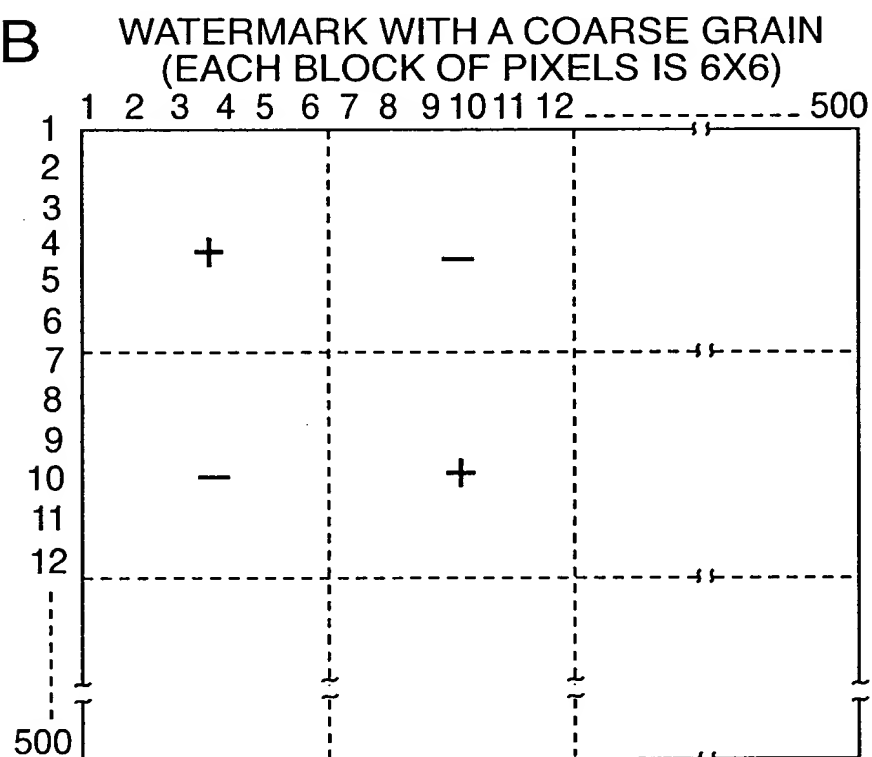
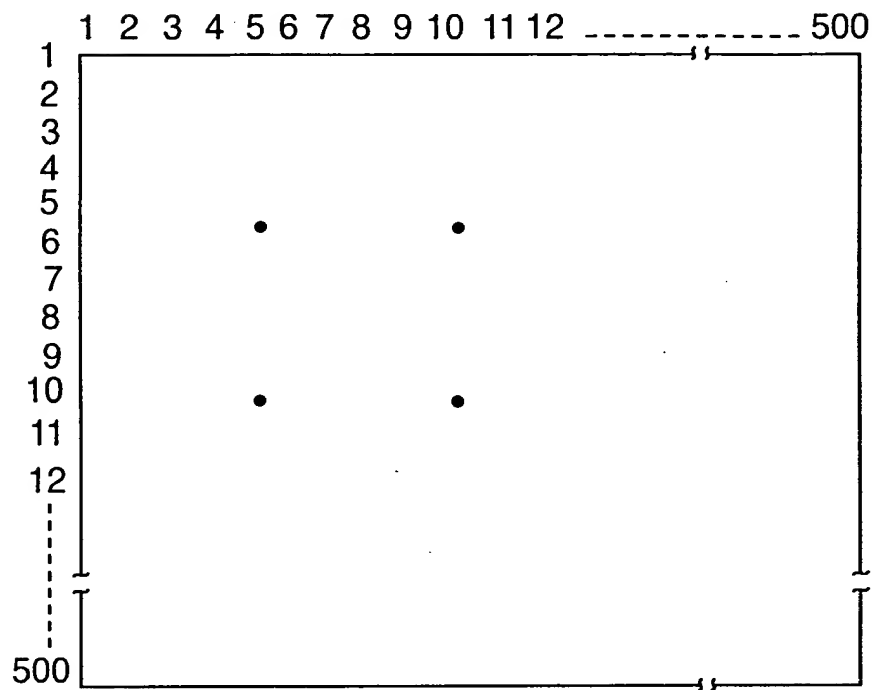


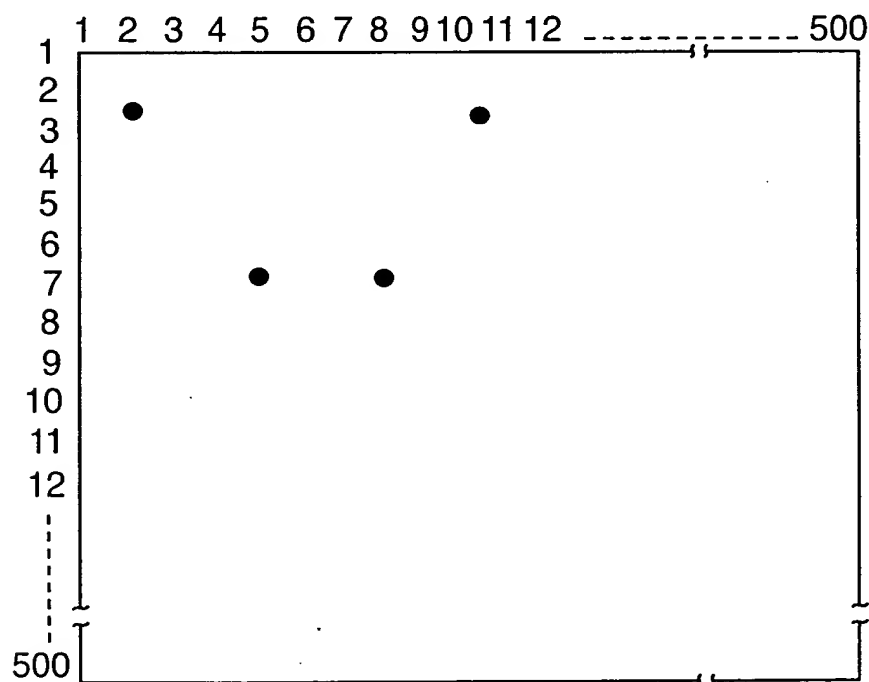
FIG. 2B

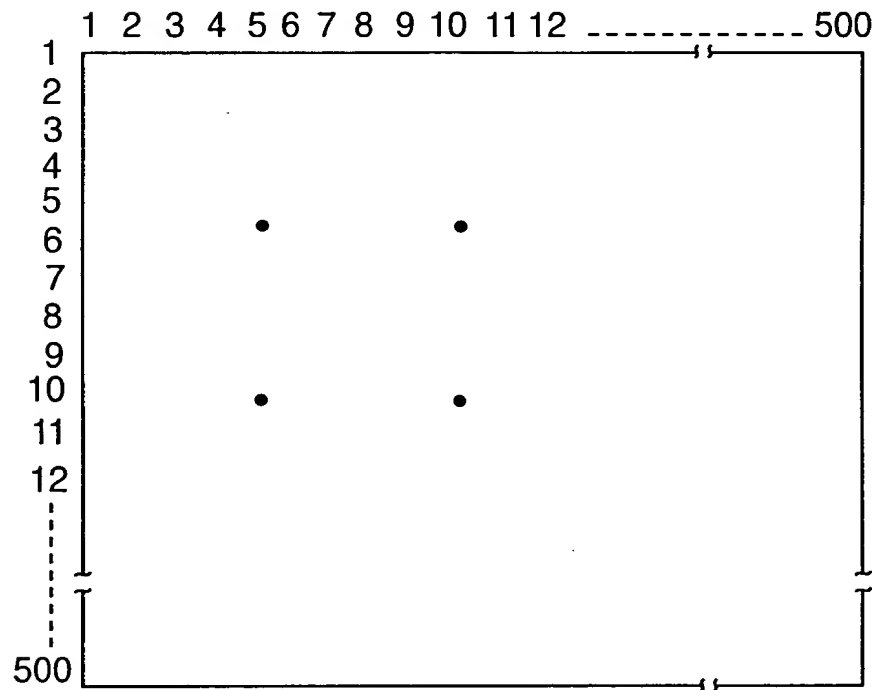


**FIG. 3A** GEOMETRICALLY LINEAR ASSIGNMENT  
OF PIXELS TO EACH BIT

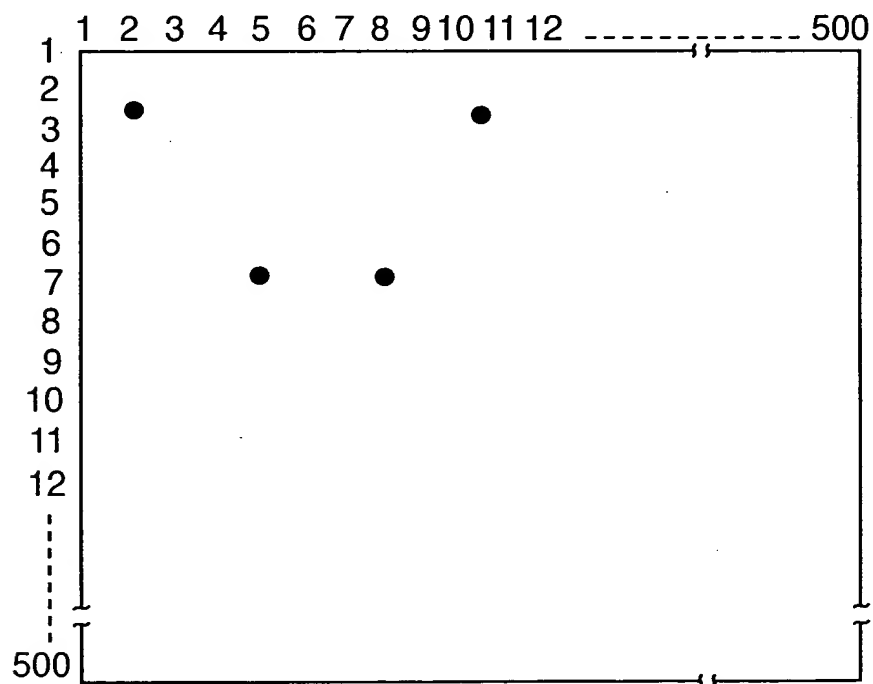


**FIG. 3B** GEOMETRICALLY RANDOM ASSIGNMENT  
OF PIXELS TO EACH BIT

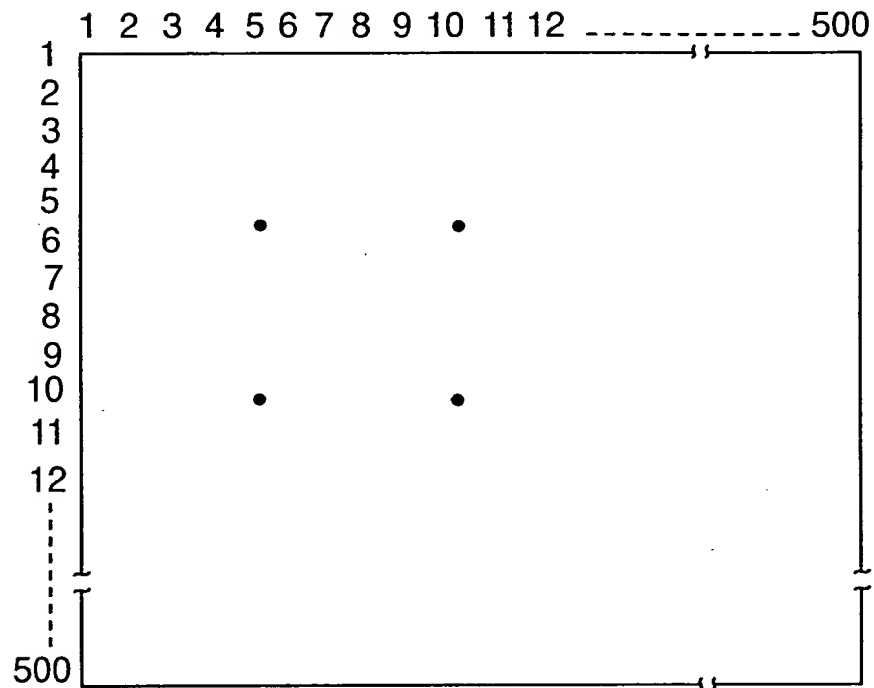




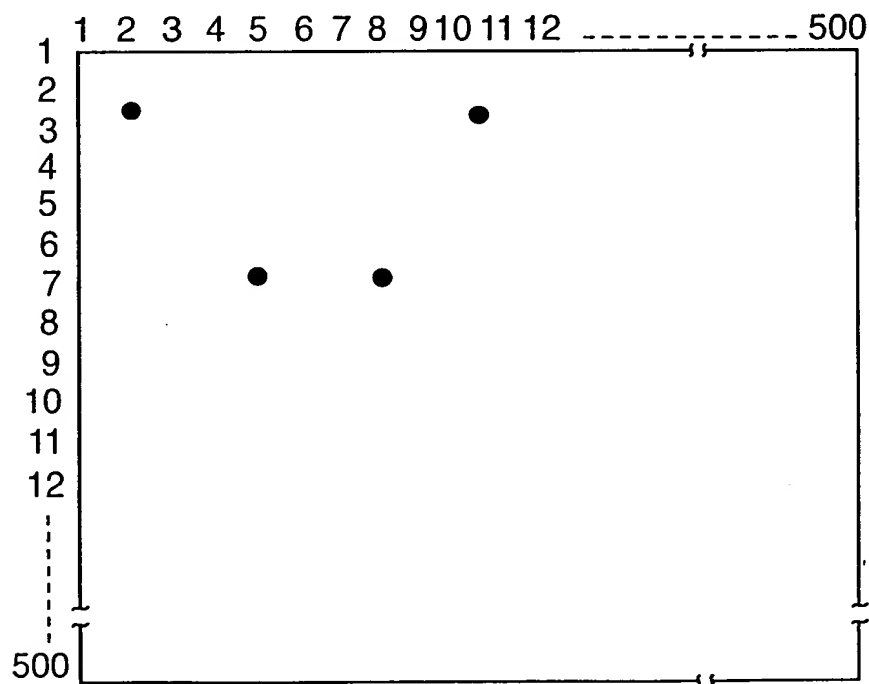
**FIG. 3B** GEOMETRICALLY RANDOM ASSIGNMENT OF PIXELS TO EACH BIT



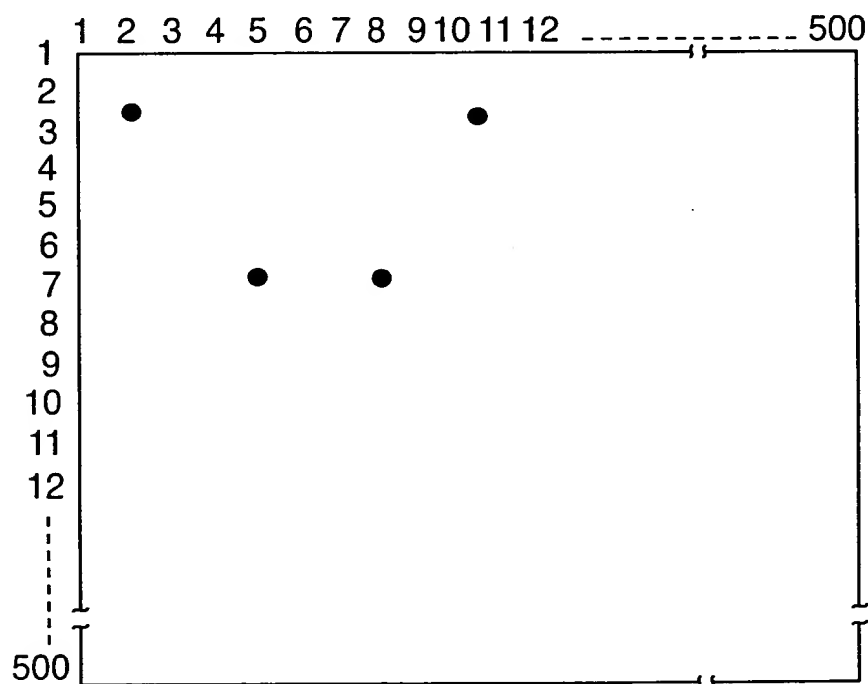
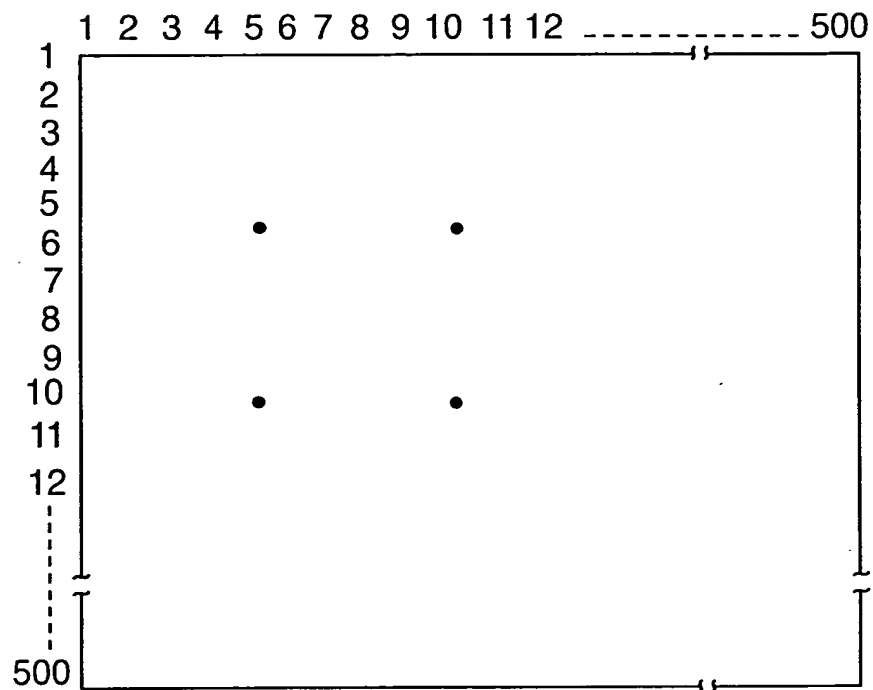
**FIG. 3A** GEOMETRICALLY LINEAR ASSIGNMENT  
OF PIXELS TO EACH BIT



**FIG. 3B** GEOMETRICALLY RANDOM ASSIGNMENT  
OF PIXELS TO EACH BIT



**FIG. 3A** GEOMETRICALLY LINEAR ASSIGNMENT  
OF PIXELS TO EACH BIT



- (1)  $RGB \rightarrow HSI$
- (2) FIRST WATERMARK  
 $HSI + WMI \Delta \xrightarrow{T} RGB1$
- (3) SECOND WATERMARK  
 $HSI + \text{BIASED } WM2 \Delta \rightarrow RGB2$
- (4) FINAL IMAGE  $(RGB1 + RGB2) / 2 = RGBF$

FIG. 4

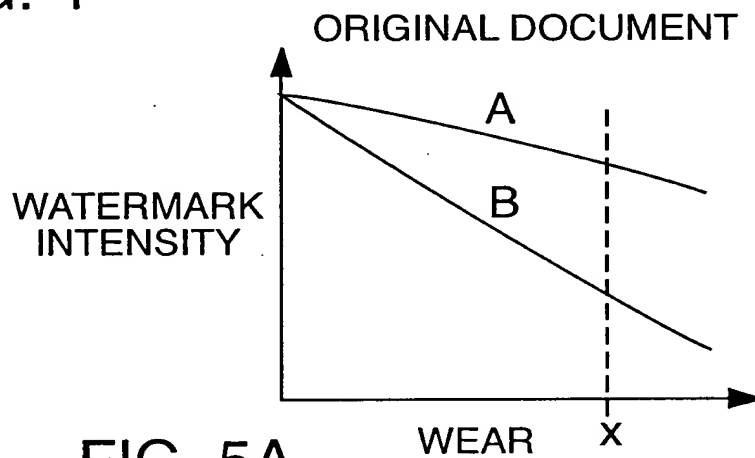


FIG. 5A

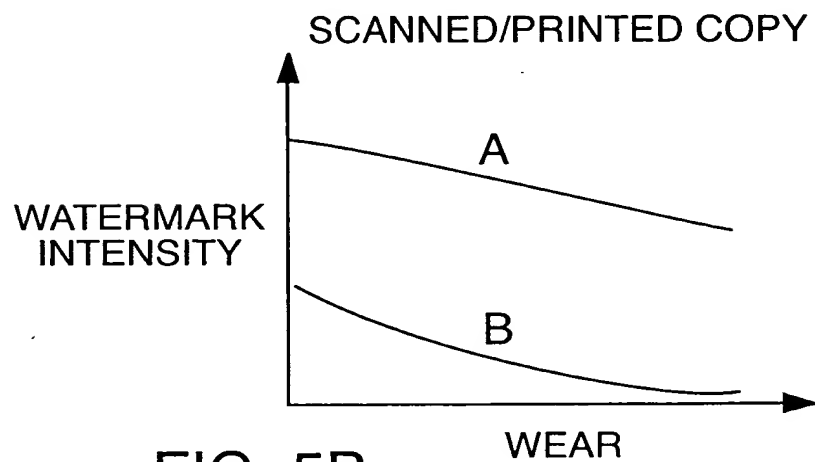


FIG. 5B

- (1)  $RGB \rightarrow HSI$
- (2) FIRST WATERMARK  
 $HSI + WMI \Delta \xrightarrow{T} RGB1$
- (3) SECOND WATERMARK  
 $HSI + \text{BIASED } WM2 \Delta \rightarrow RGB2$
- (4) FINAL IMAGE  $(RGB1 + RGB2) / 2 = RGBF$

FIG. 4

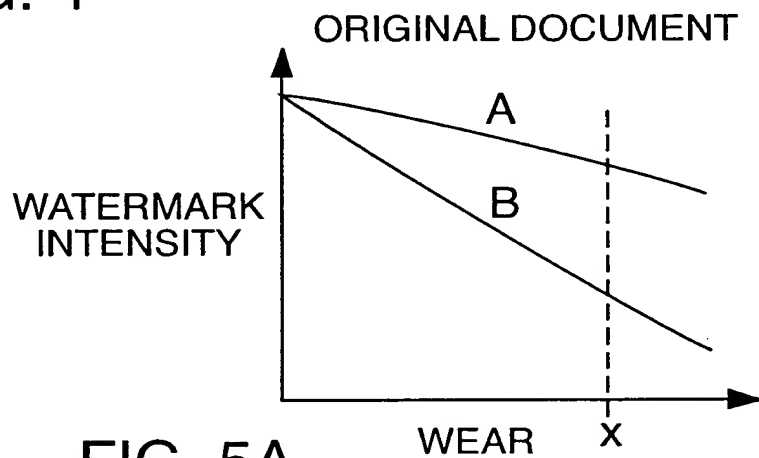


FIG. 5A

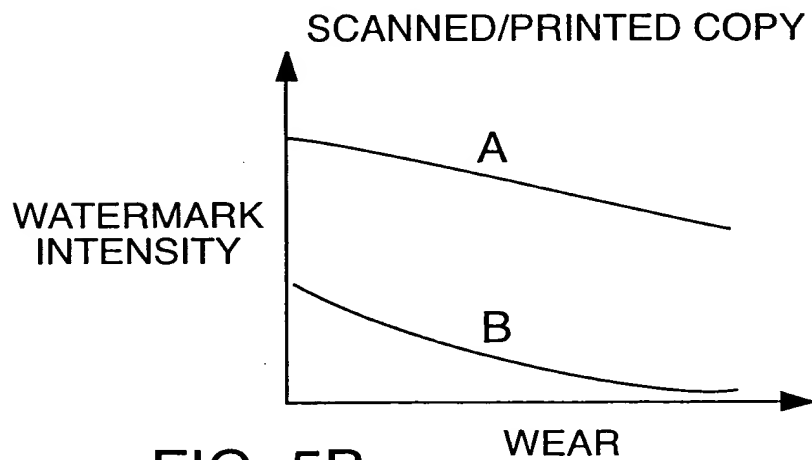


FIG. 5B

- (1)  $RGB \rightarrow HSI$
- (2) FIRST WATERMARK  
 $HSI + WMI \Delta \xrightarrow{T} RGB1$
- (3) SECOND WATERMARK  
 $HSI + \text{BIASED } WM2 \Delta \rightarrow RGB2$
- (4) FINAL IMAGE  $(RGB1 + RGB2) / 2 = RGBF$

FIG. 4

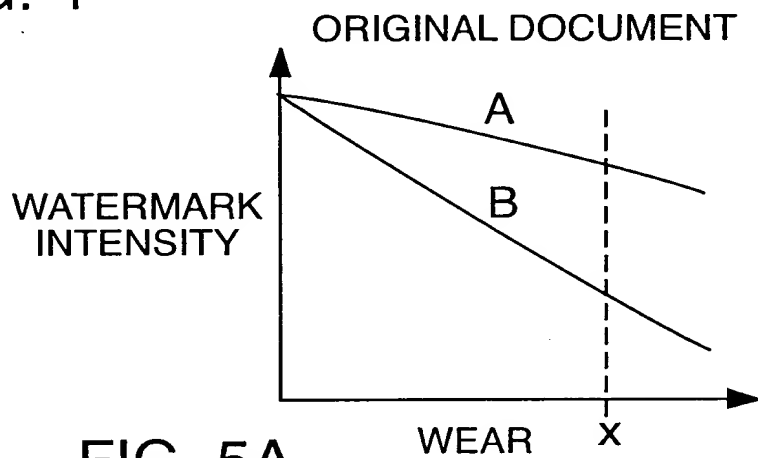


FIG. 5A

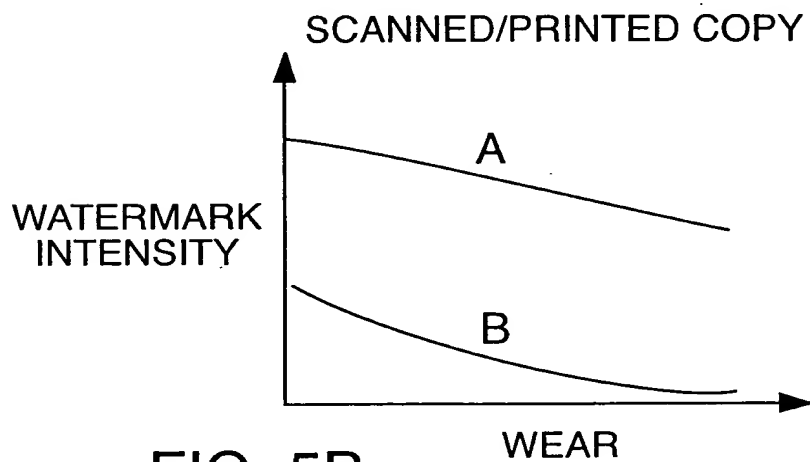


FIG. 5B



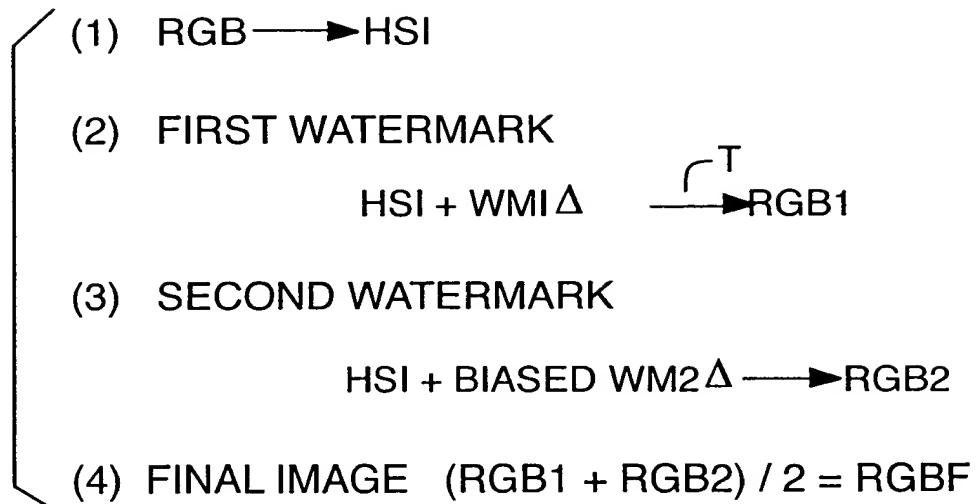


FIG. 4

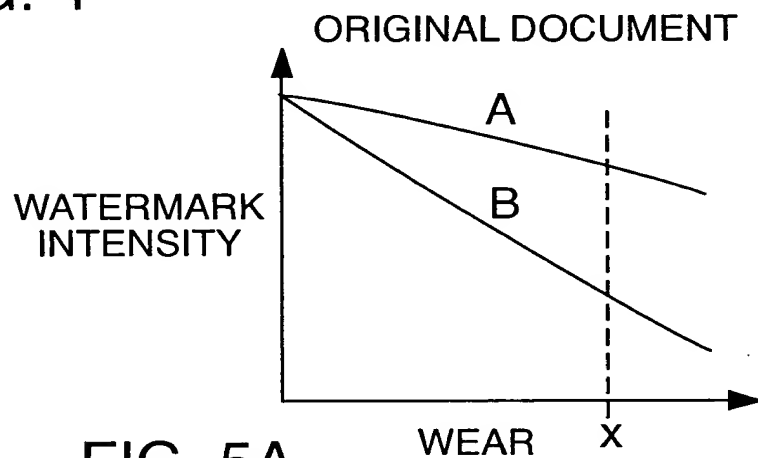


FIG. 5A

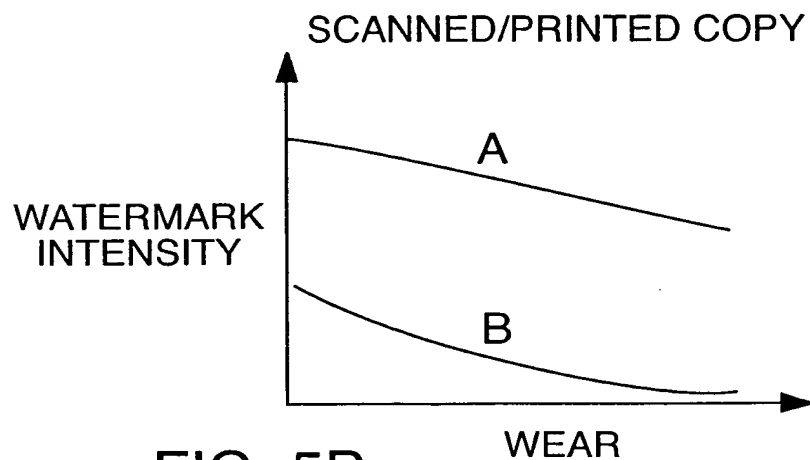
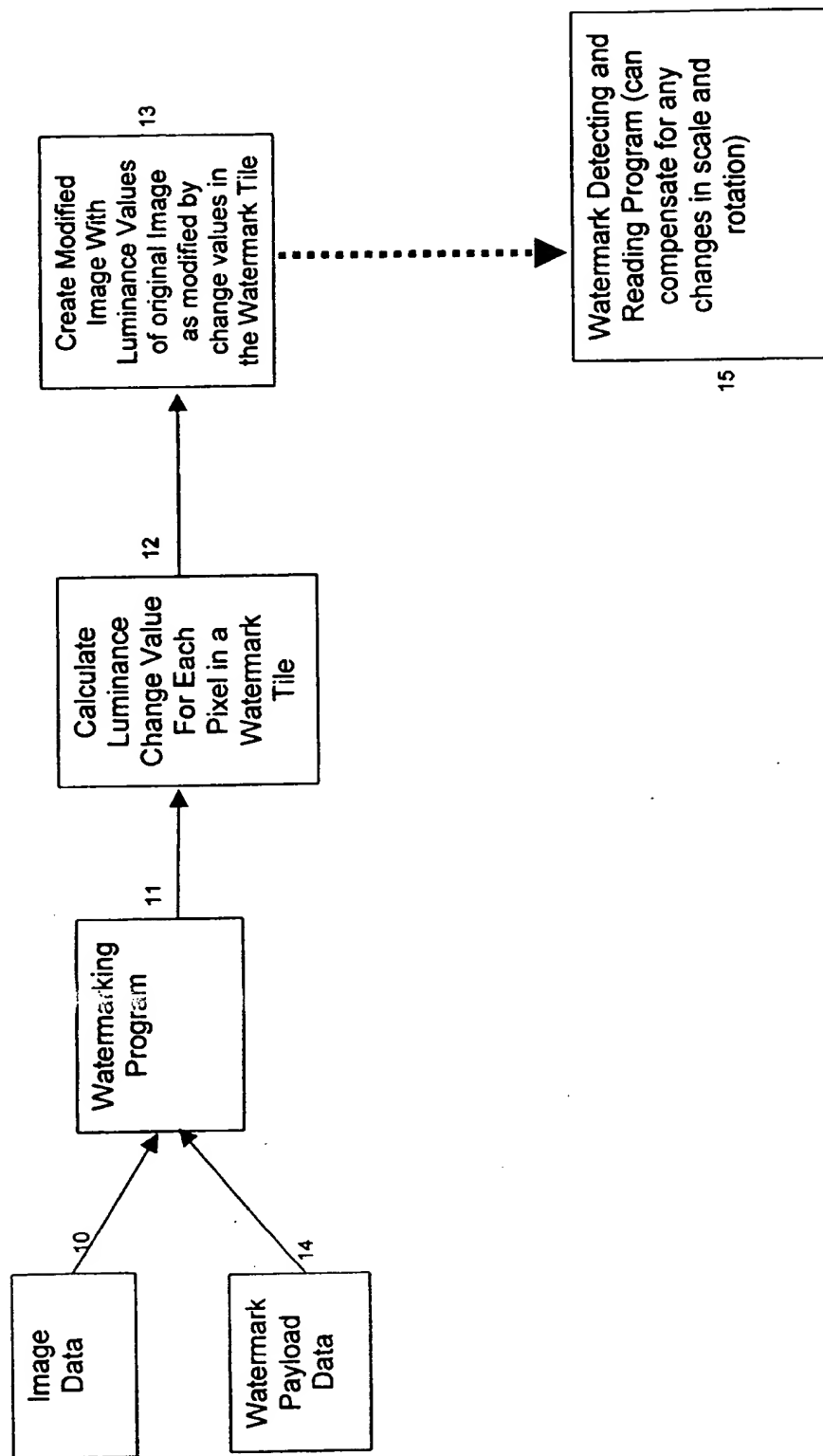


FIG. 5B

Figure 1 (Prior Art)



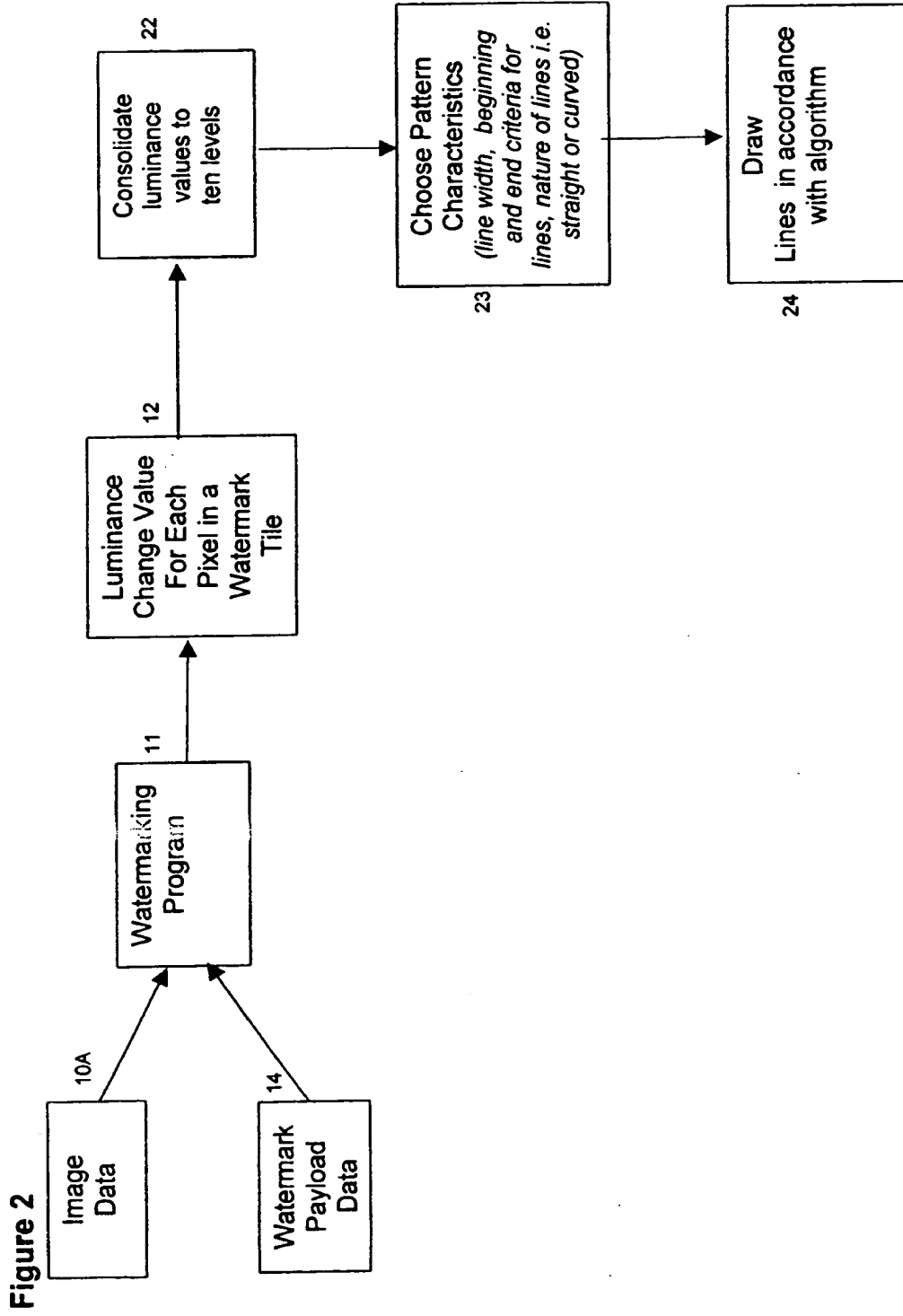
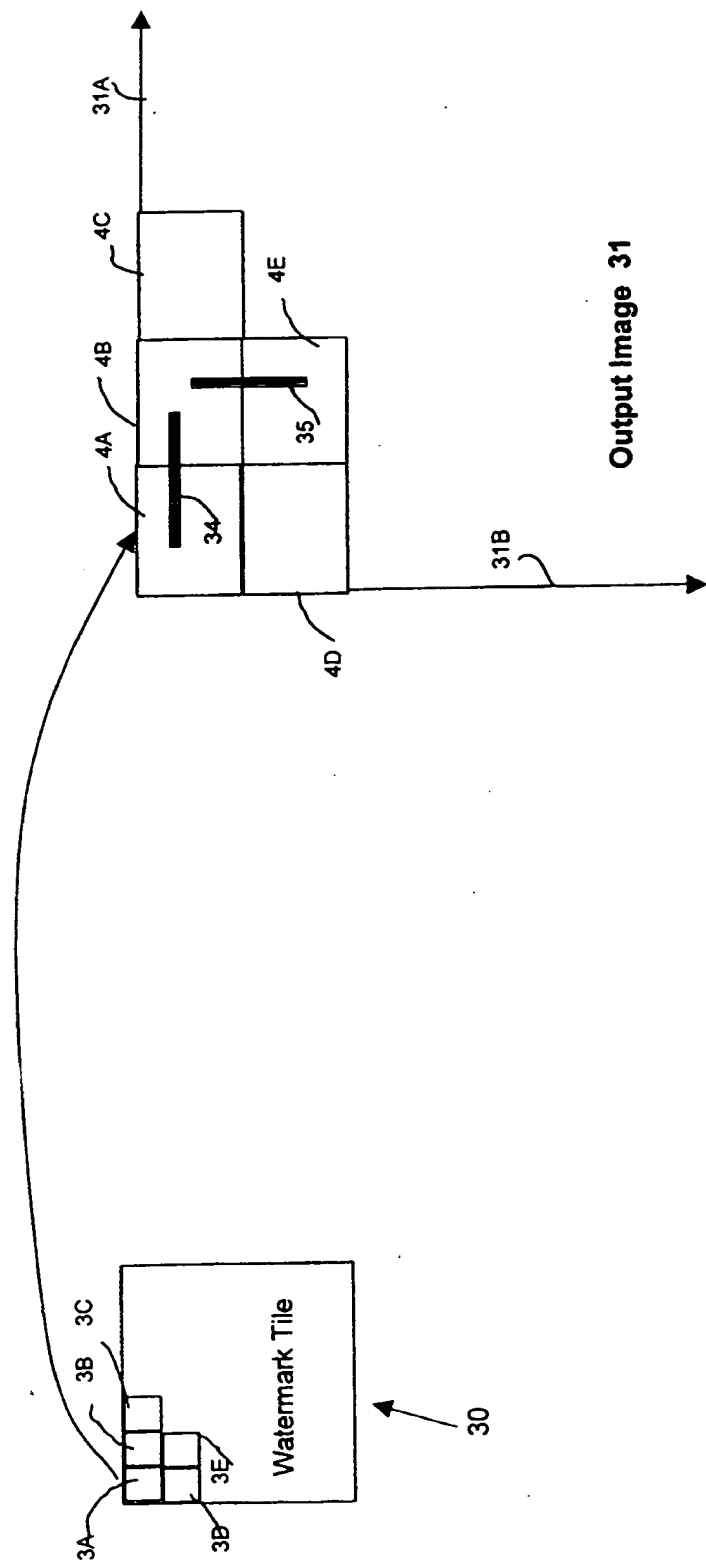
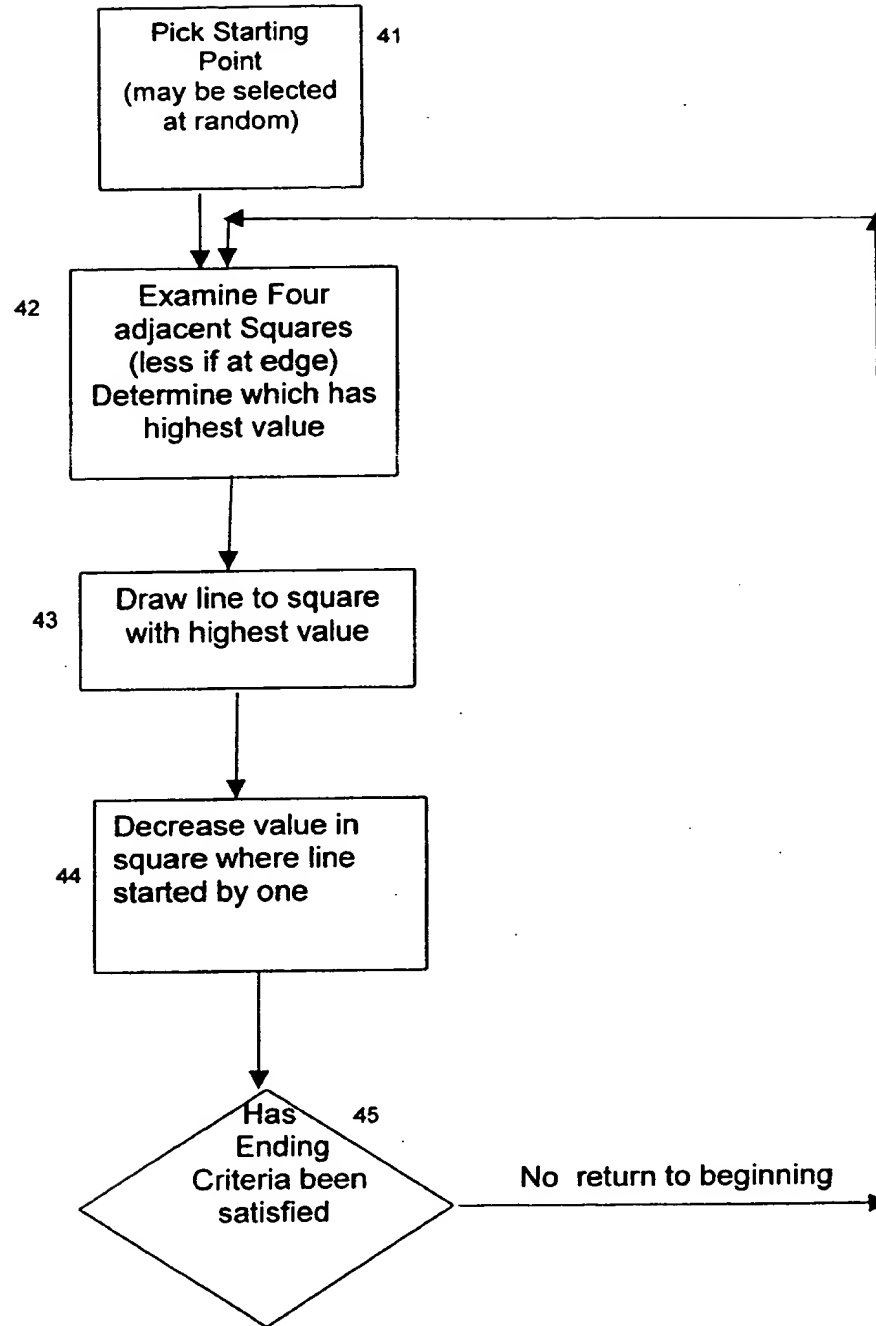


Figure 3



(note to draftsman -- edges of all squares line up -- sides of all squares have same weight lines )

Figure 4



[illegible]

**Figure 6**

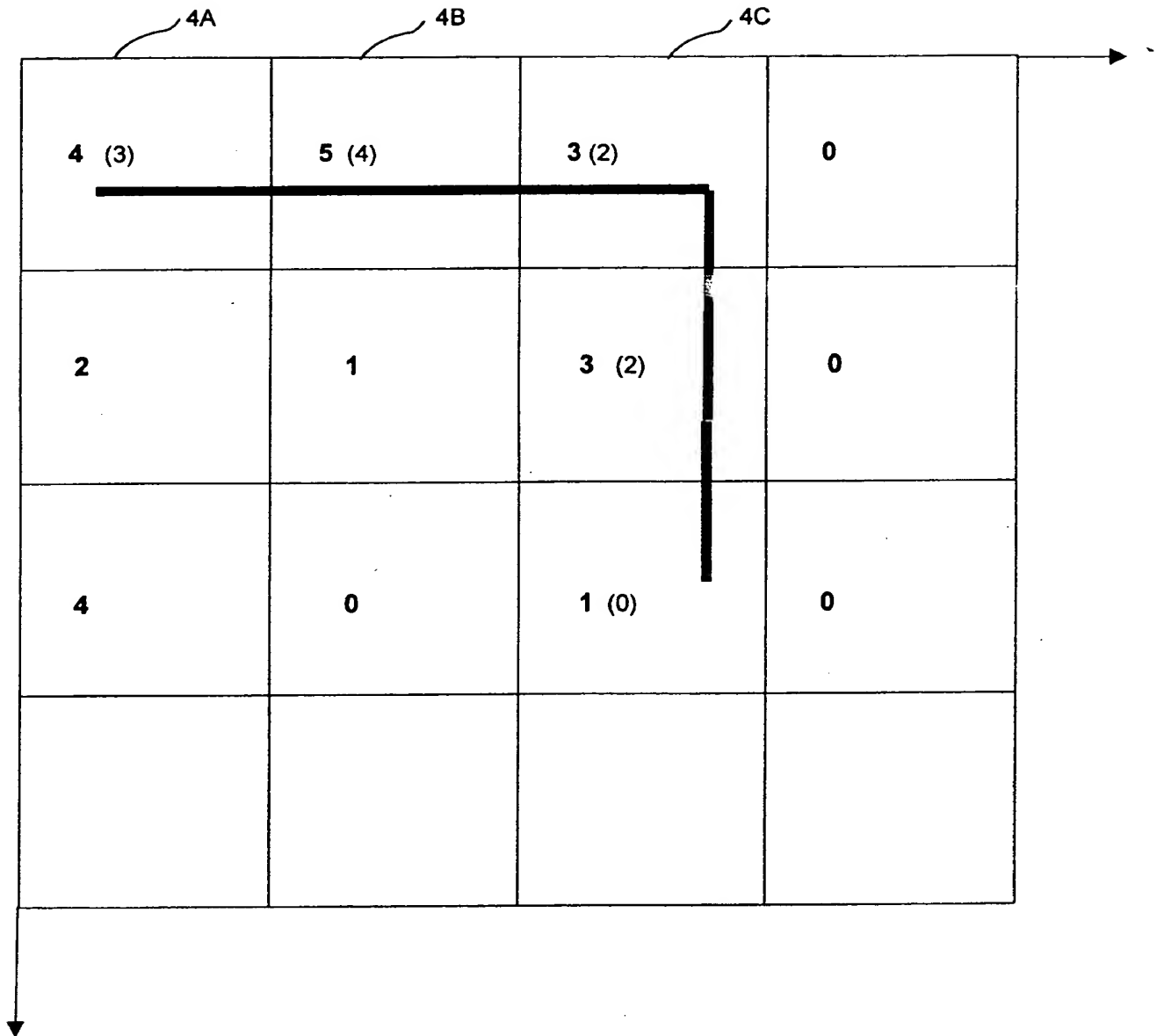
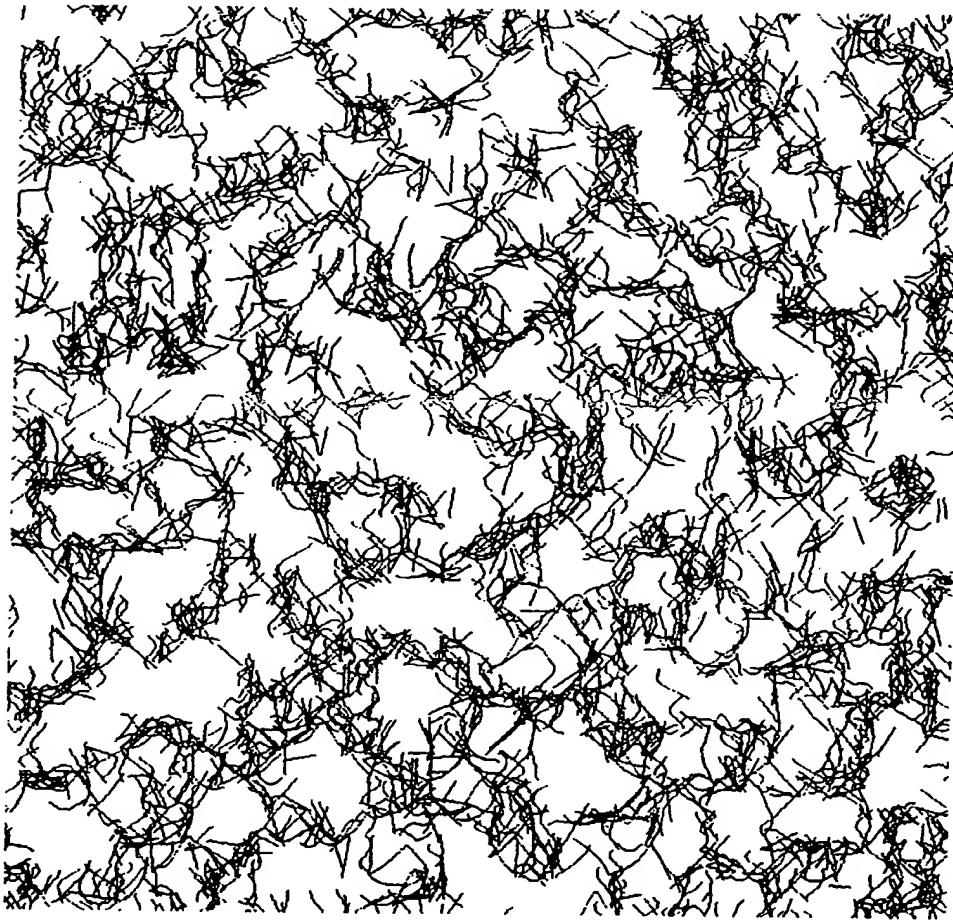


Figure 7



00044366 004504



TESTED 99ET860

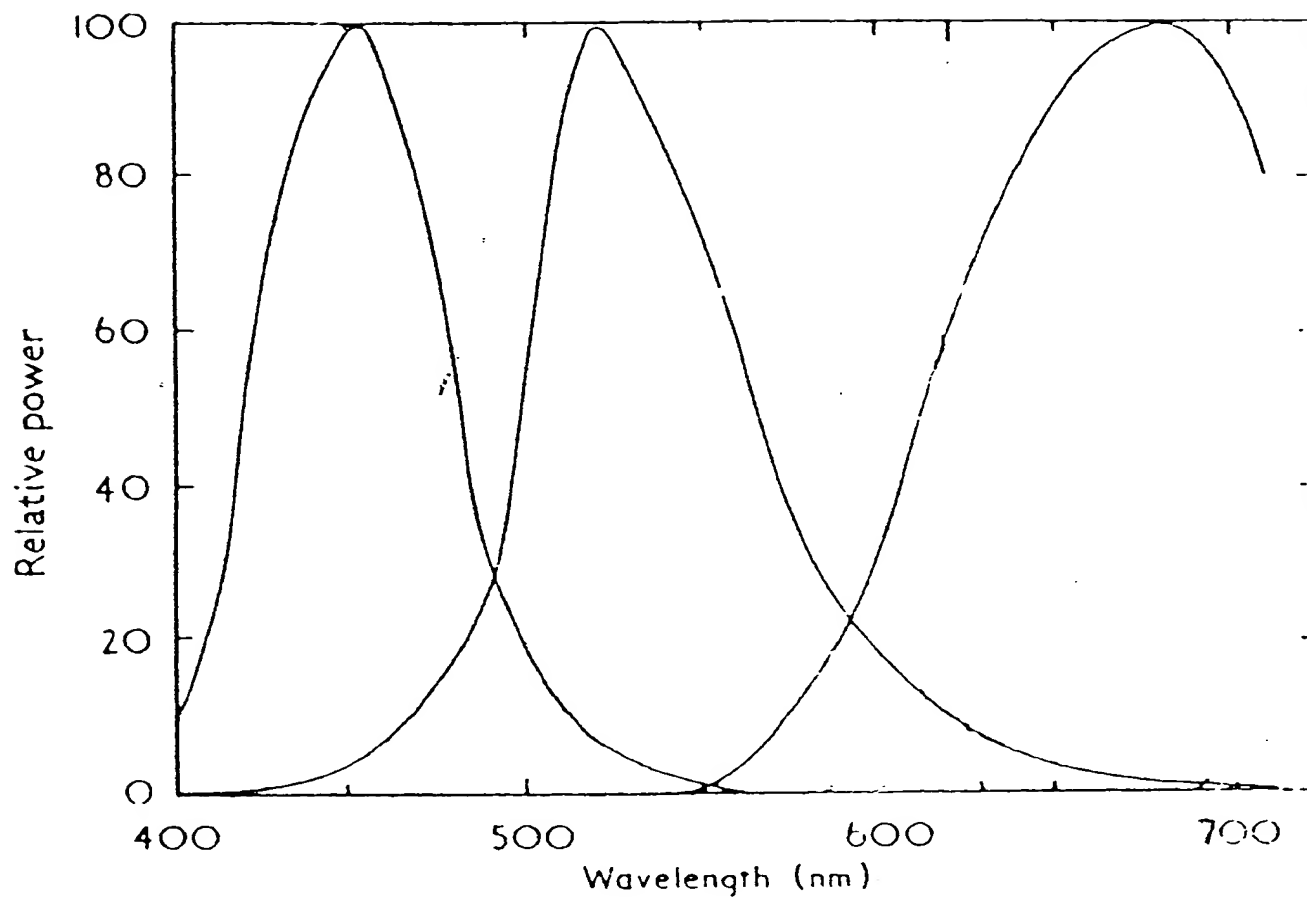
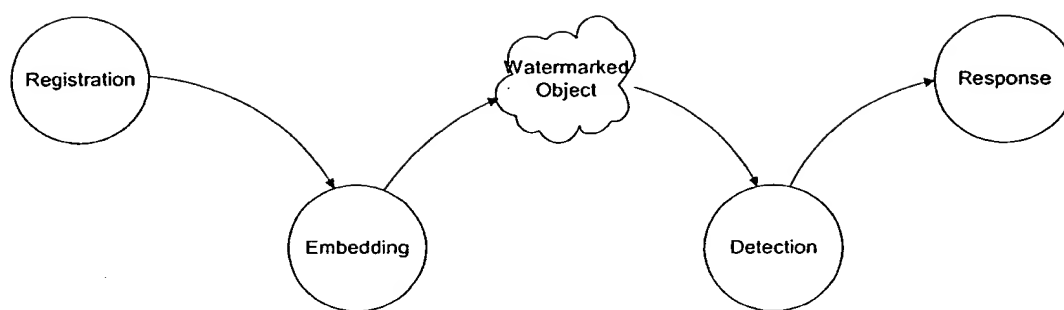


Fig. 1



**FIG. 1**

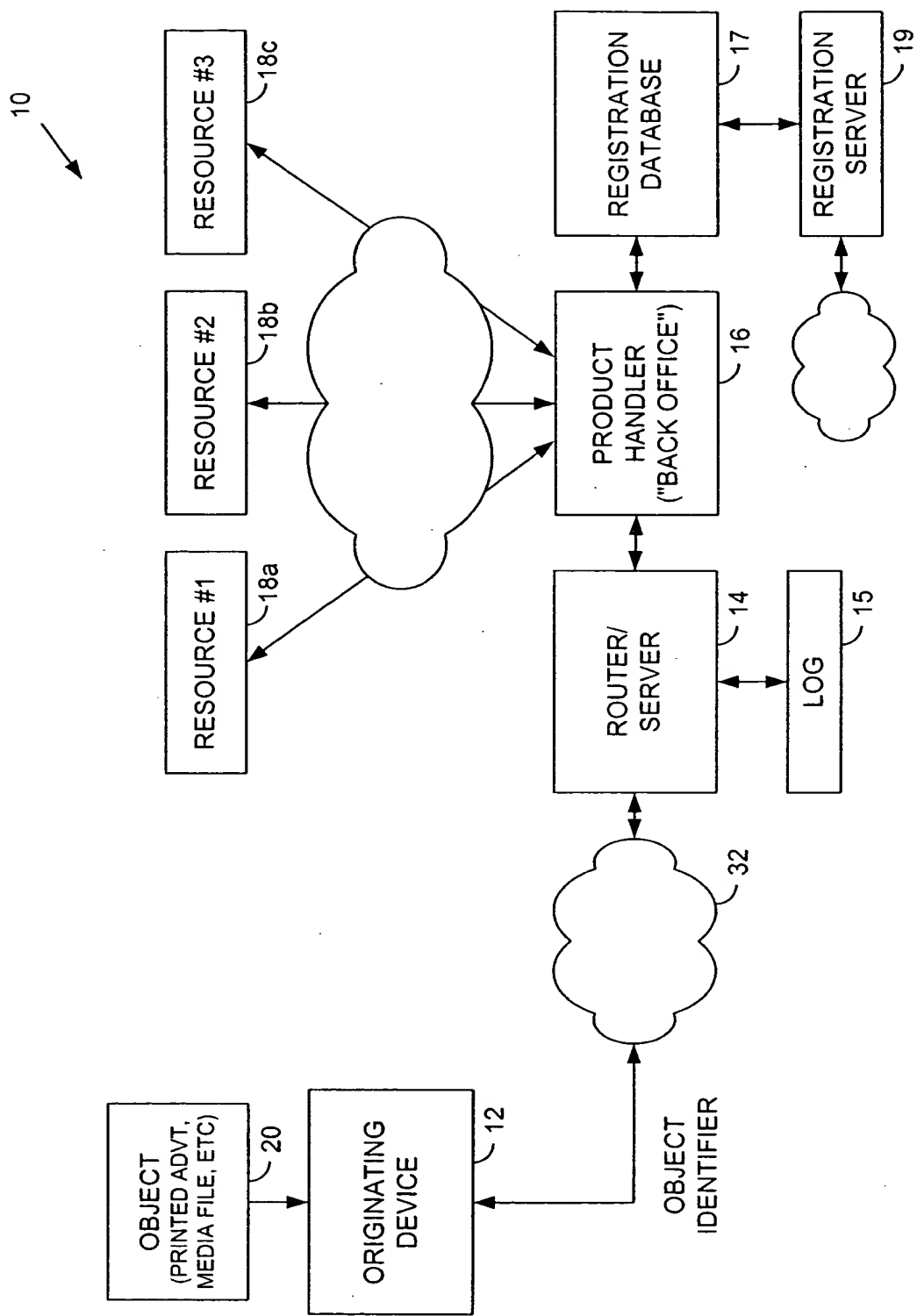
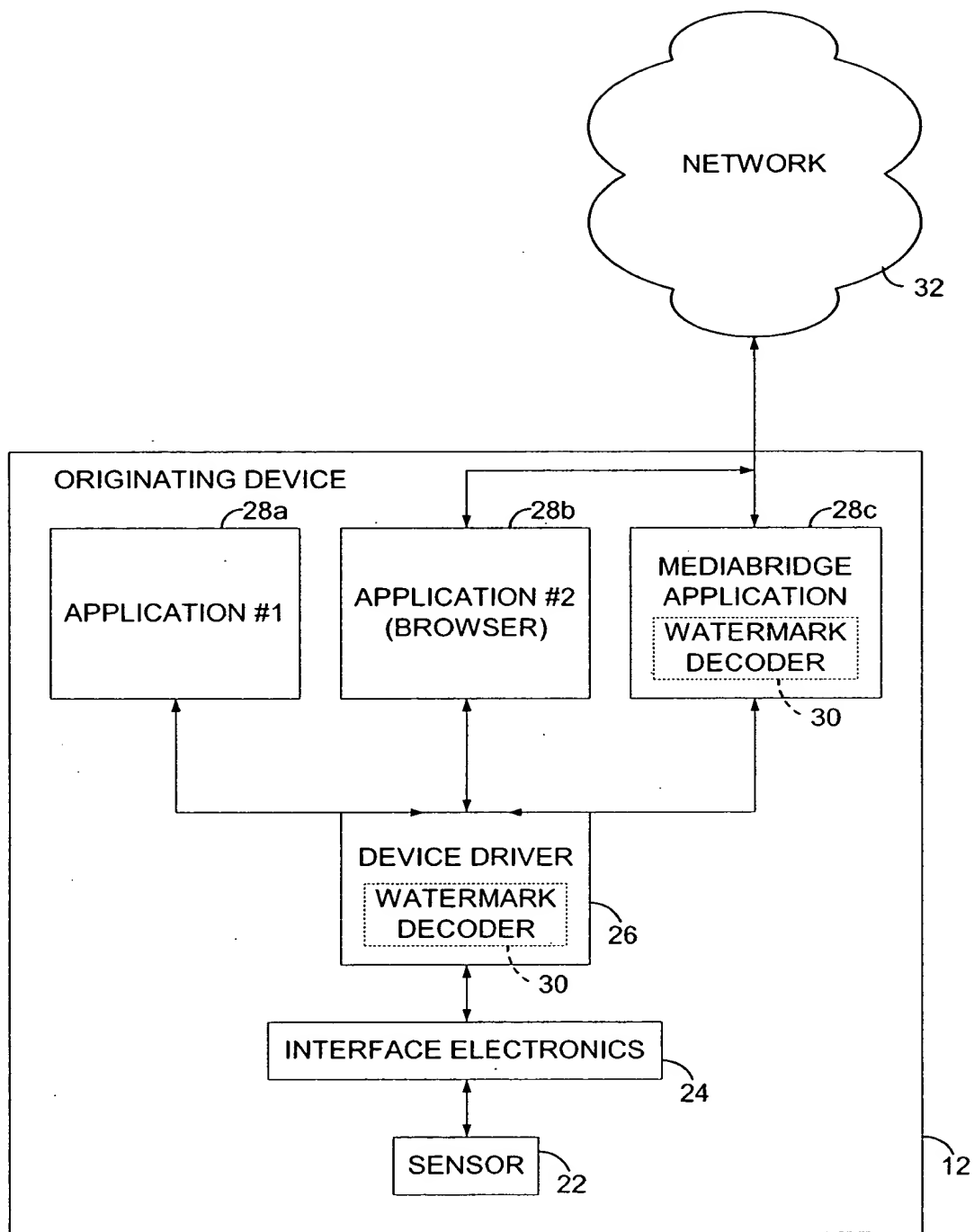


FIG. 2



**FIG. 3**

00044366 004504

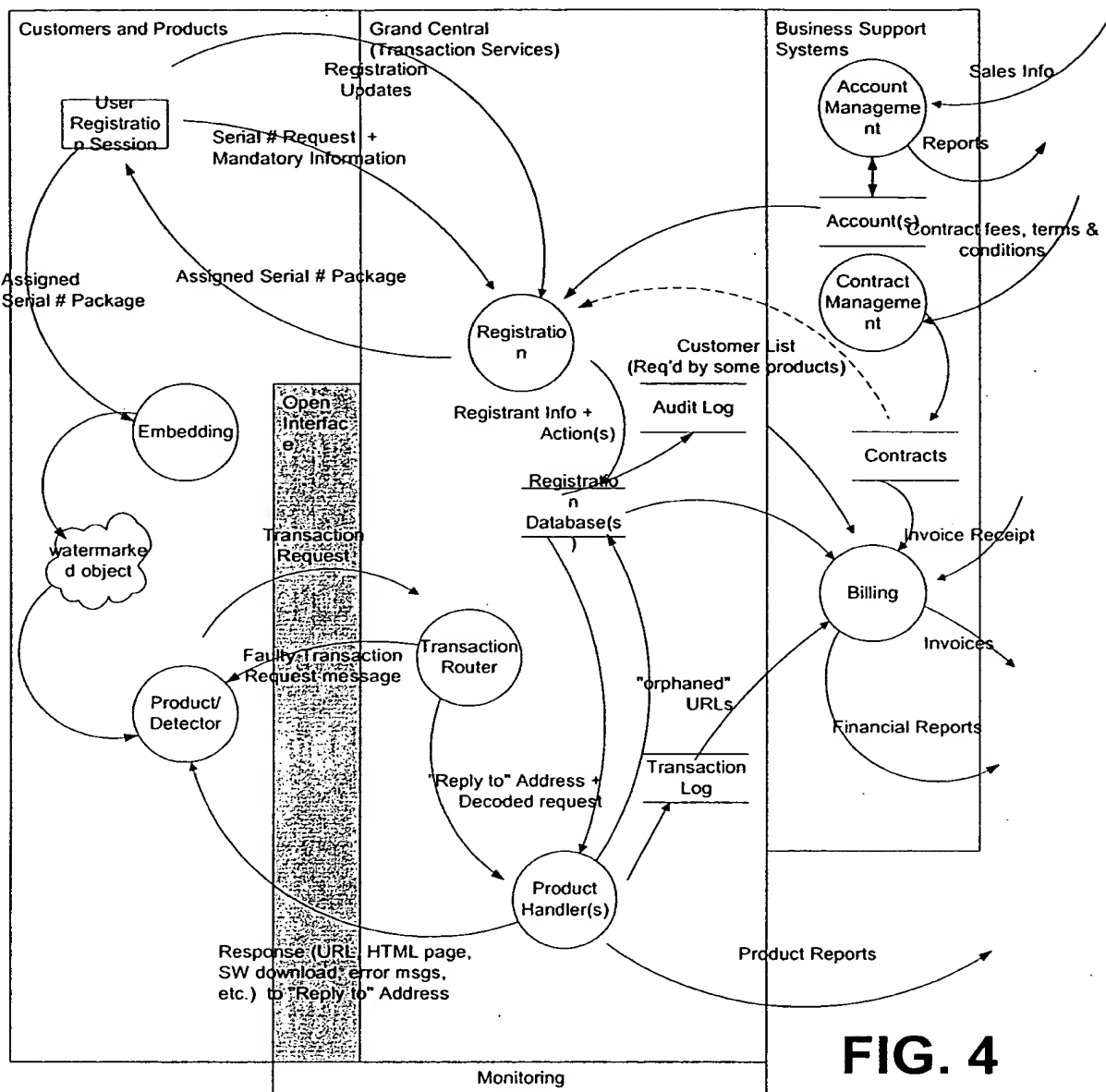


FIG. 4

094366 094504  
TEST SET 360

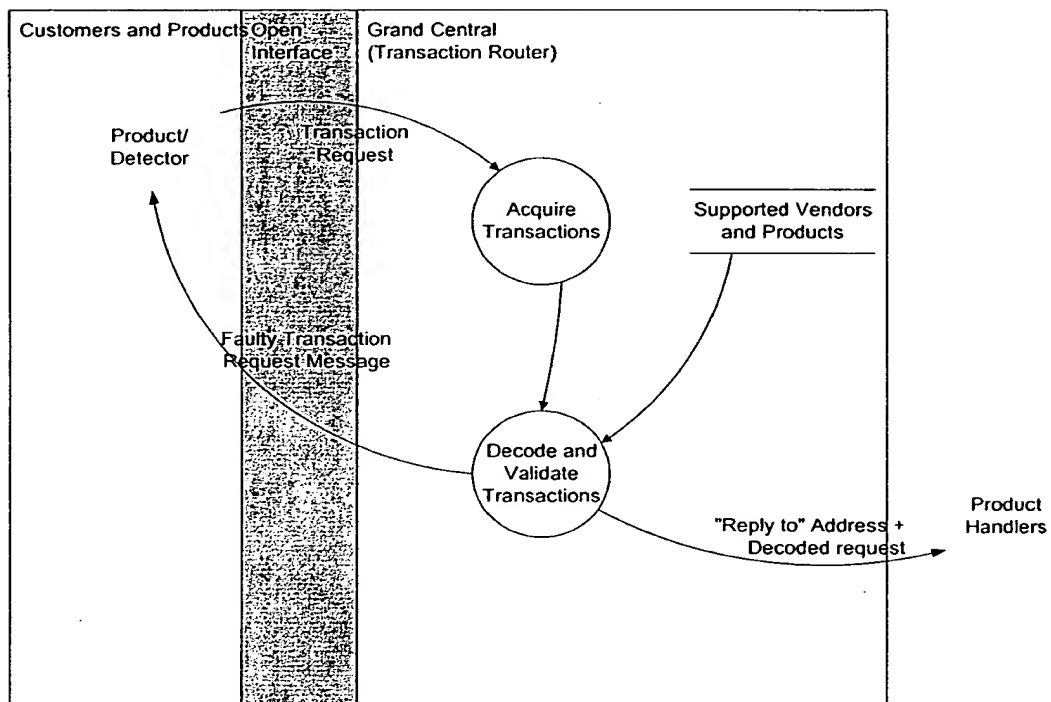


FIG. 5

0004366-0004

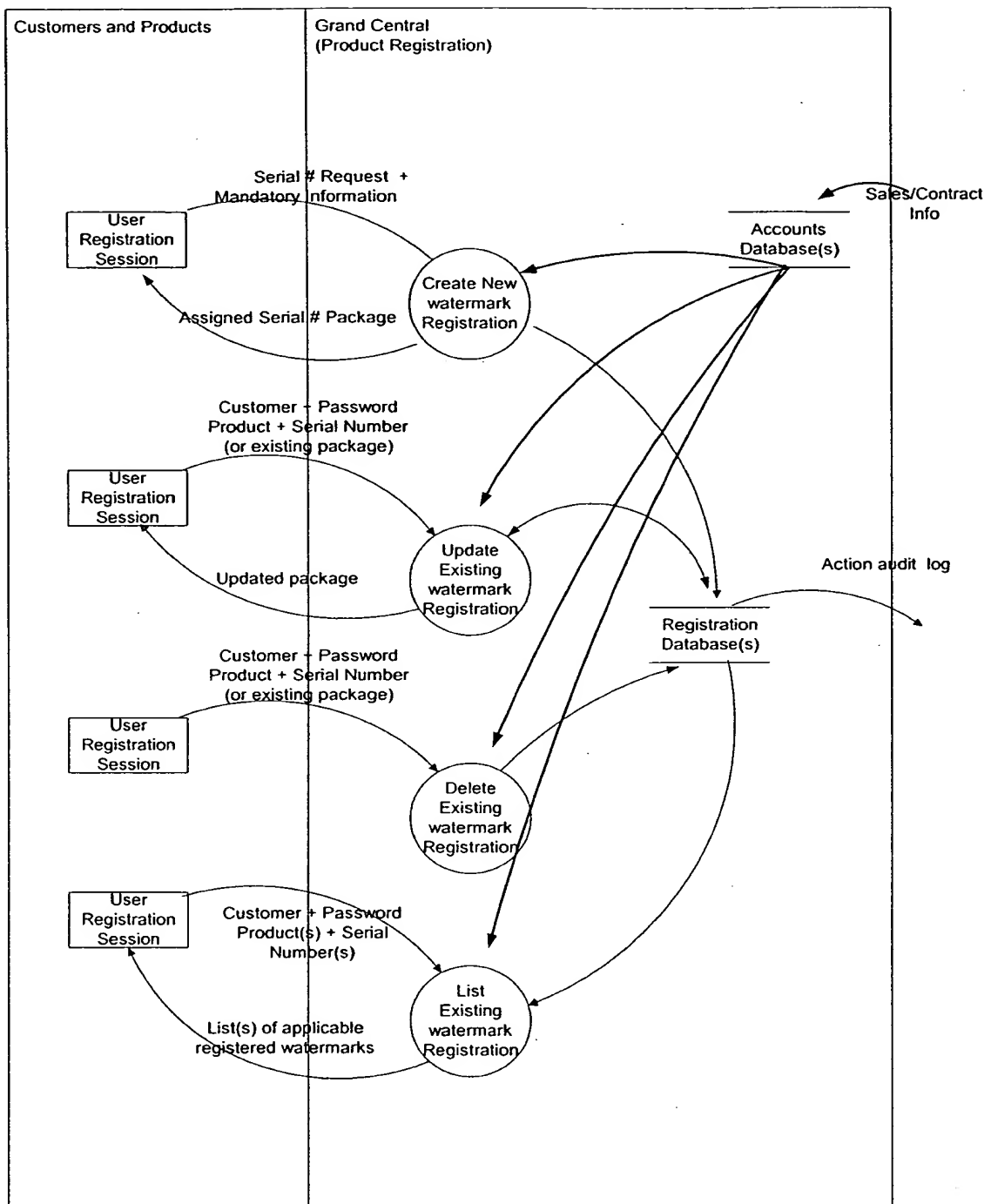


FIG. 6

APPENDIX G DRAWINGS



0344366-034504

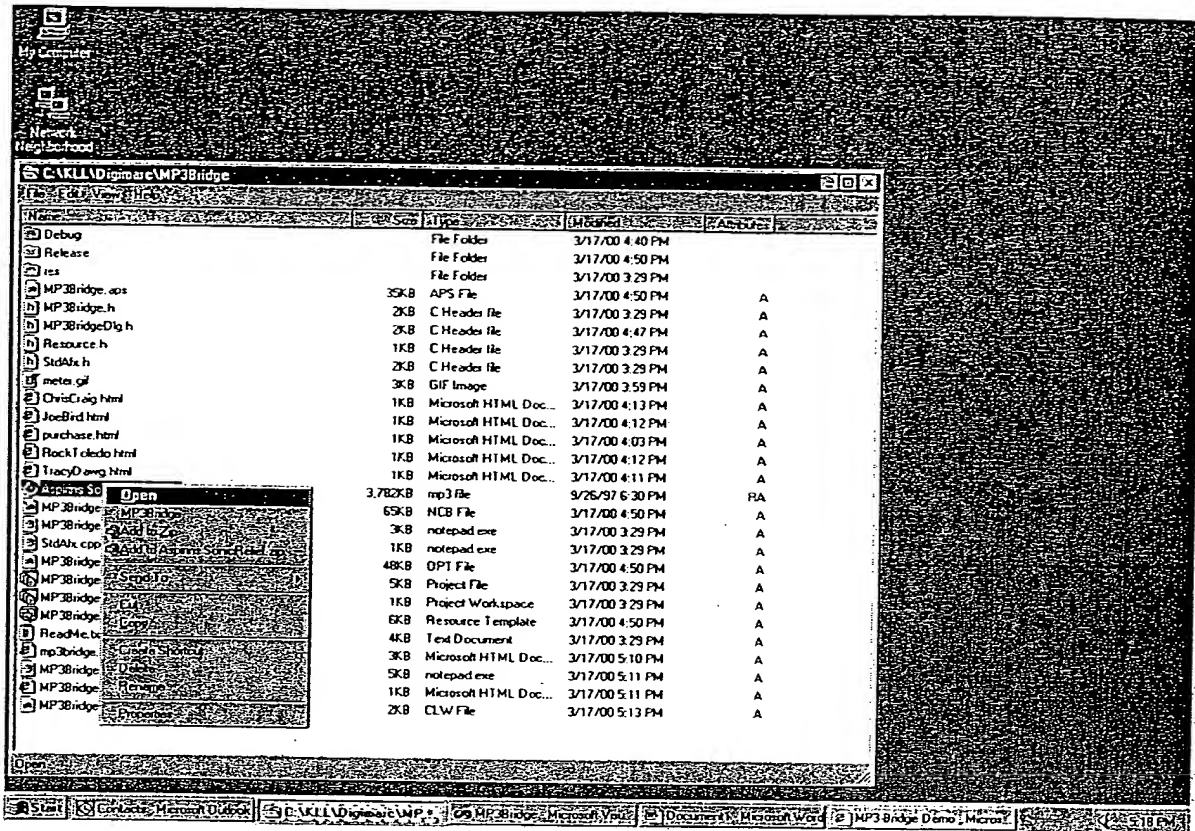


FIG. 8

00466-04604

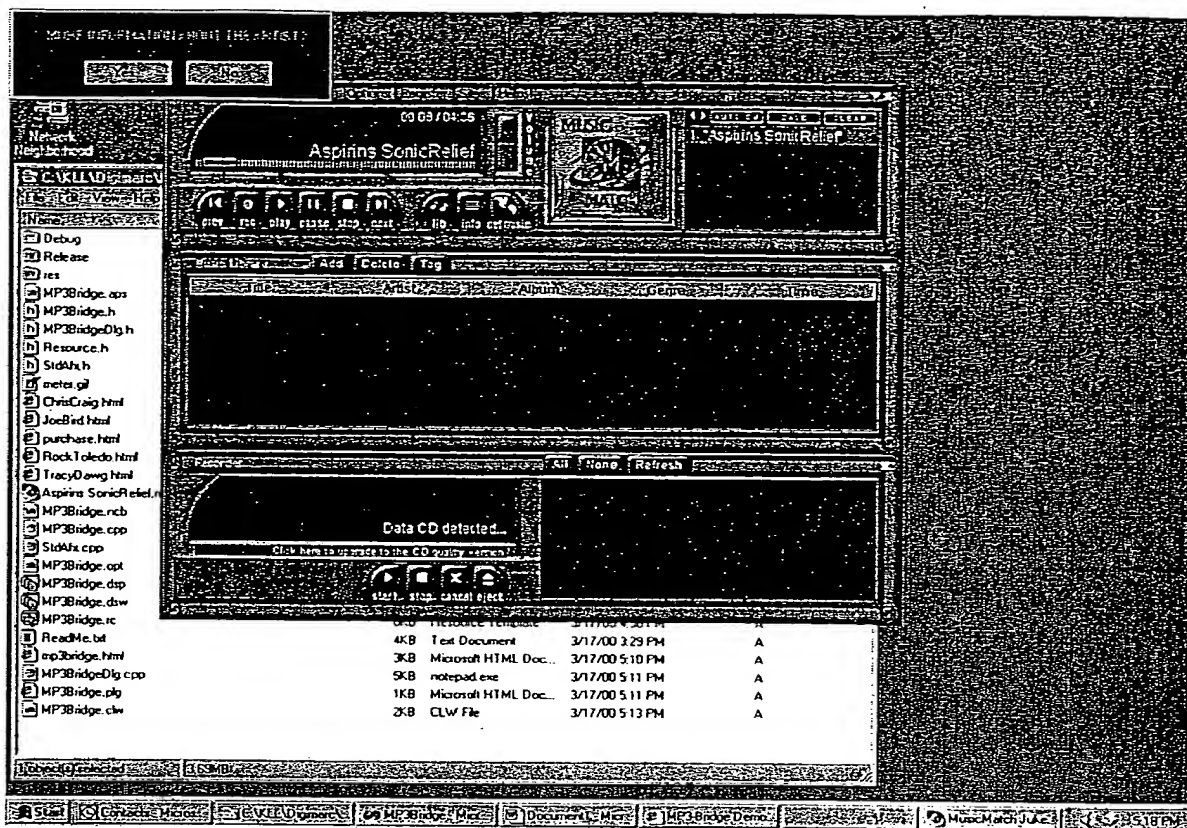


FIG. 9

00041356 031504

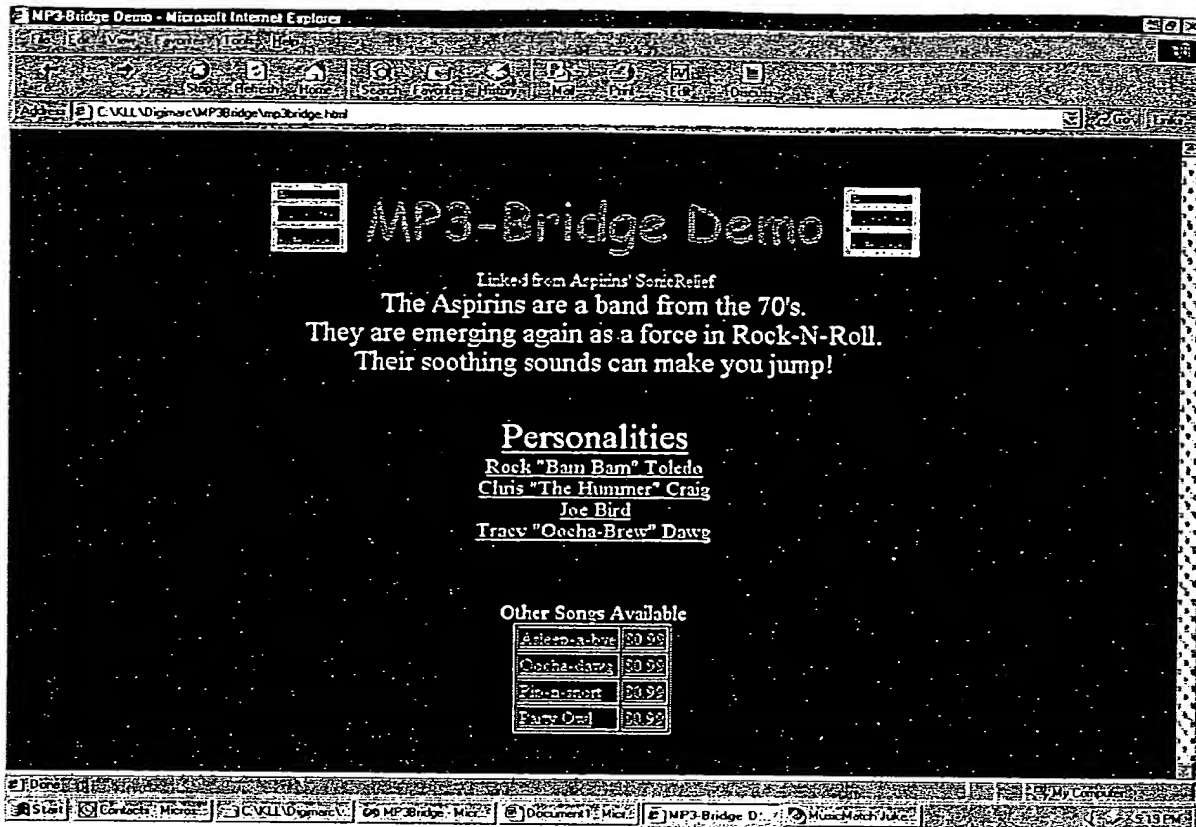
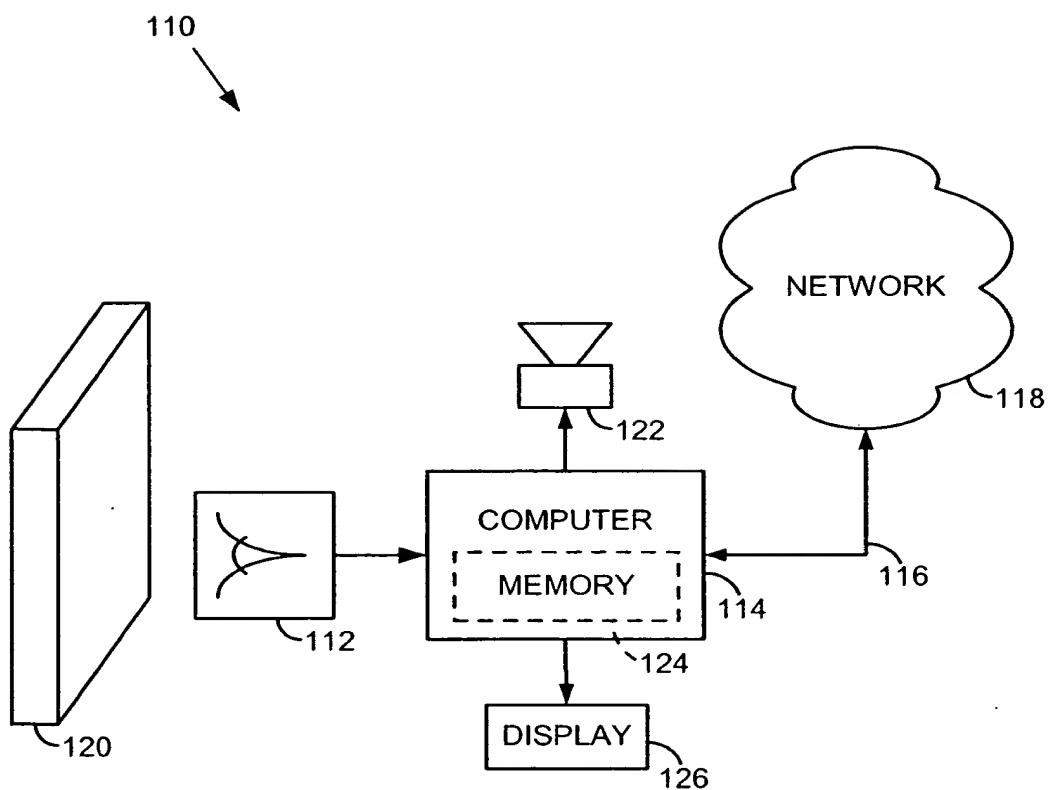


Fig 10



**FIG. 11**

FIG. 12

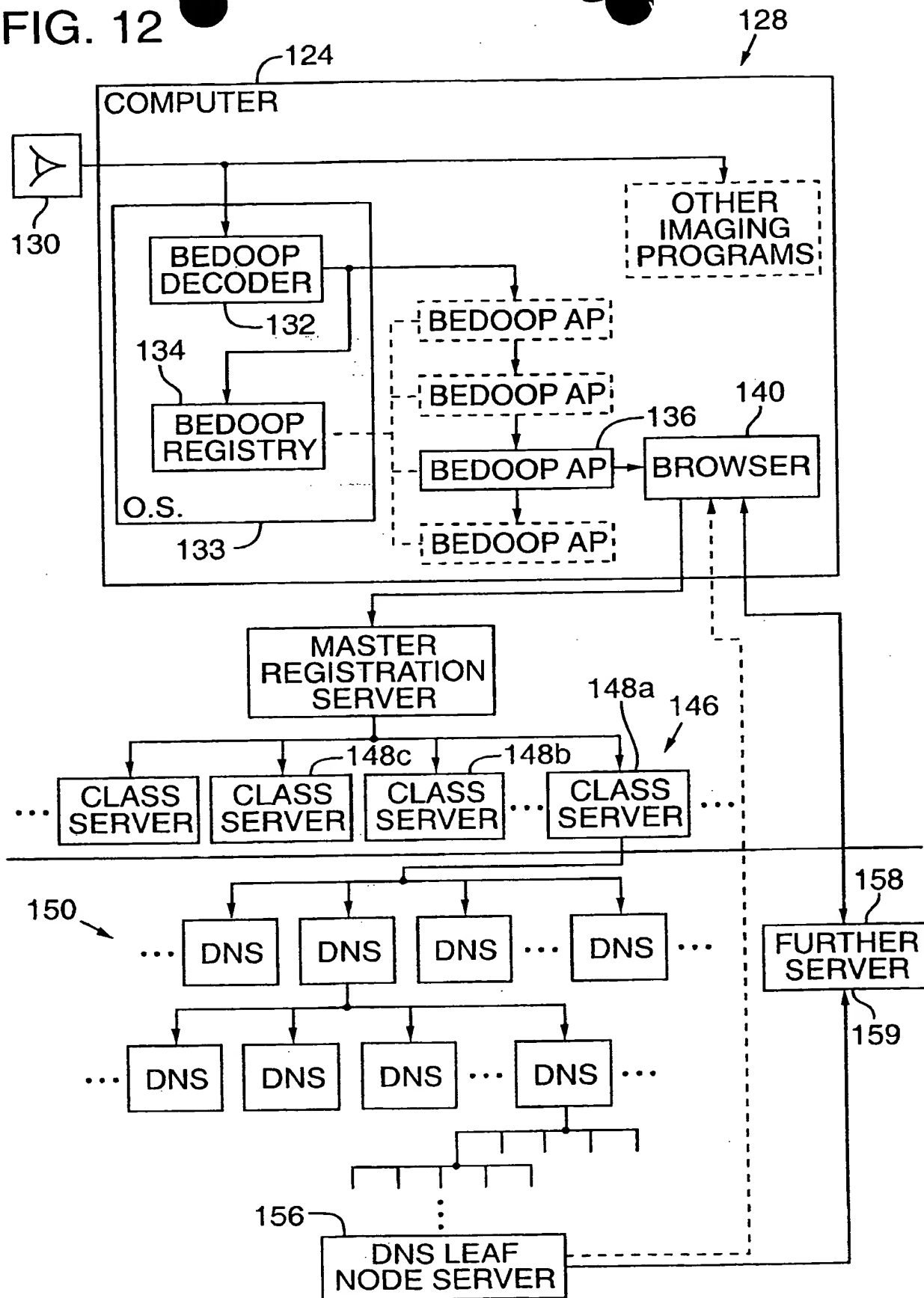


FIG. 13

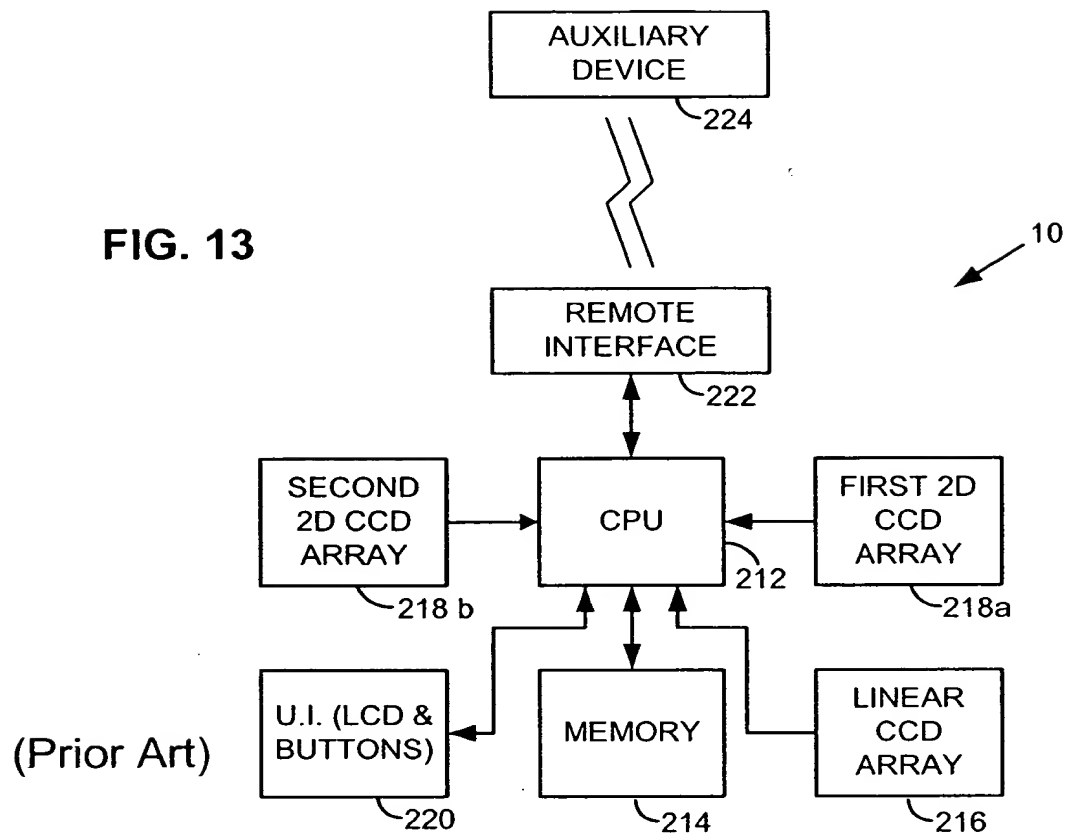
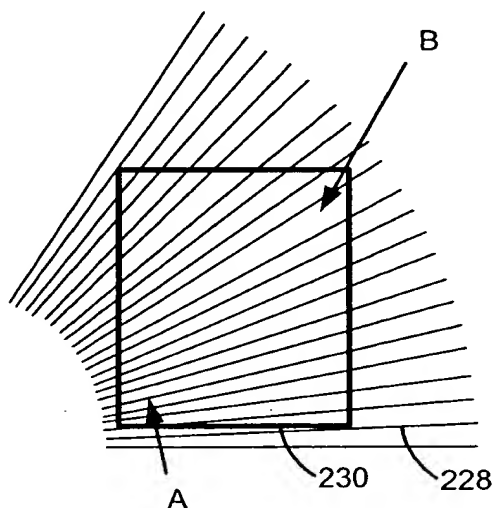
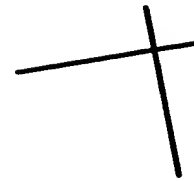


FIG. 14





## Grid Orientation Under CCD 218b

**FIG. 15**

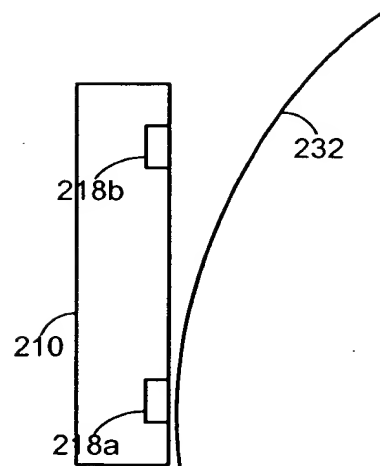


FIG. 16

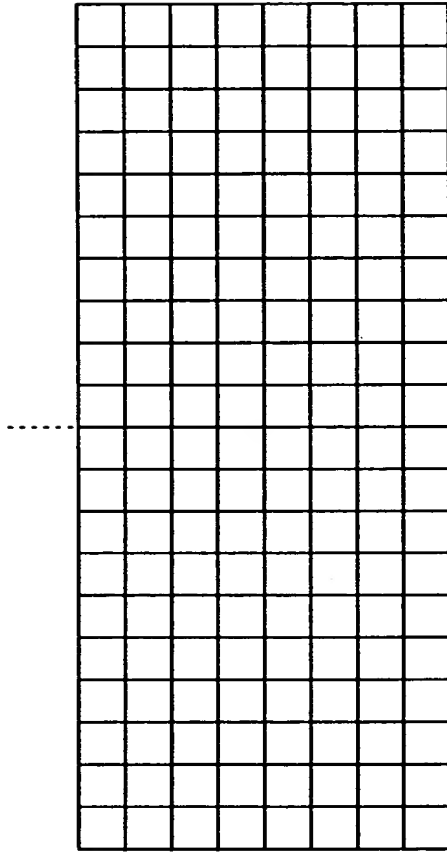


FIG. 17  
(Prior Art)

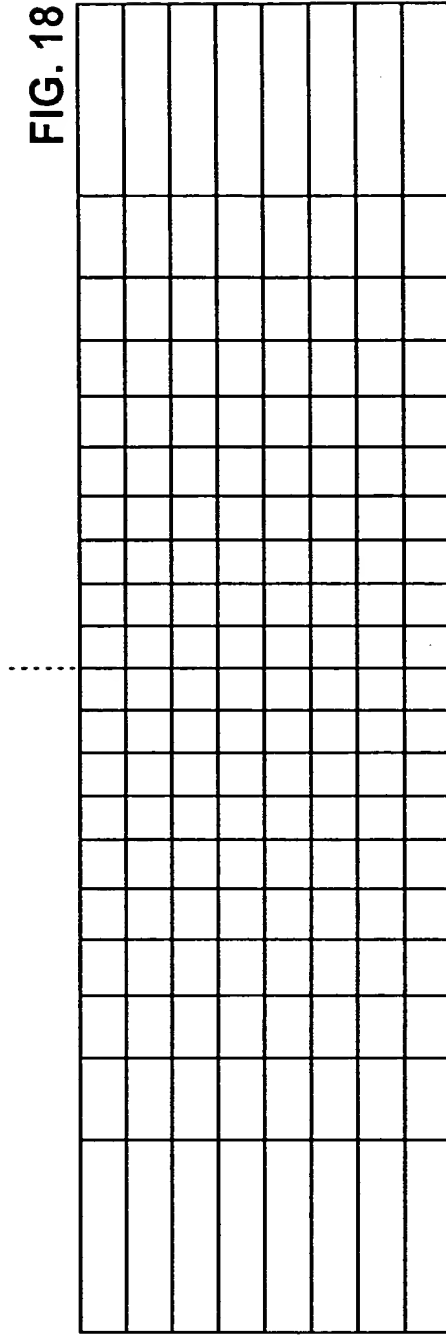


FIG. 18



0004366-034504

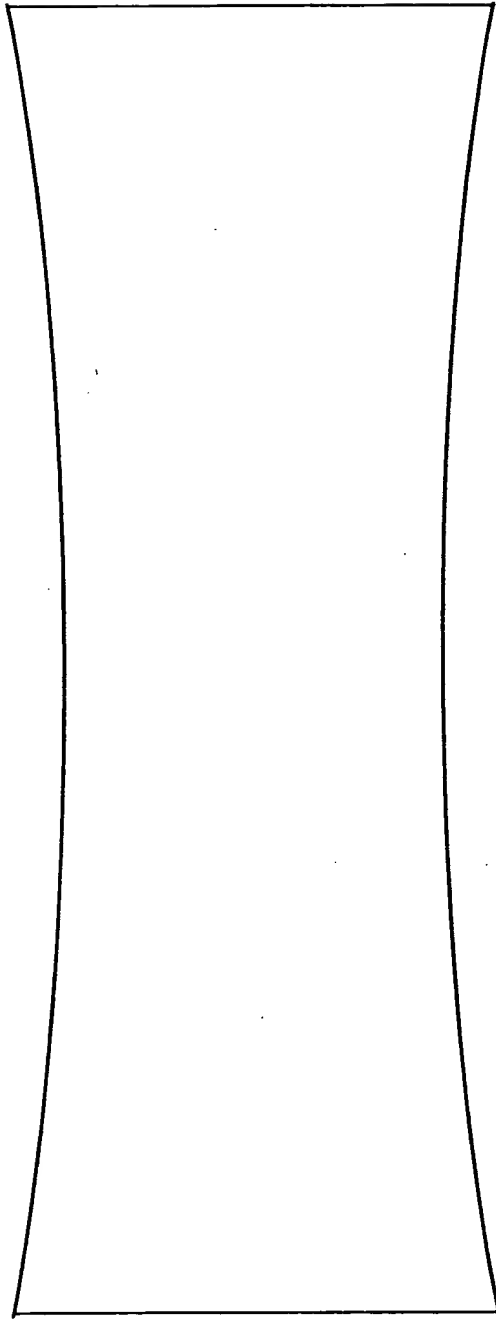


FIG. 19

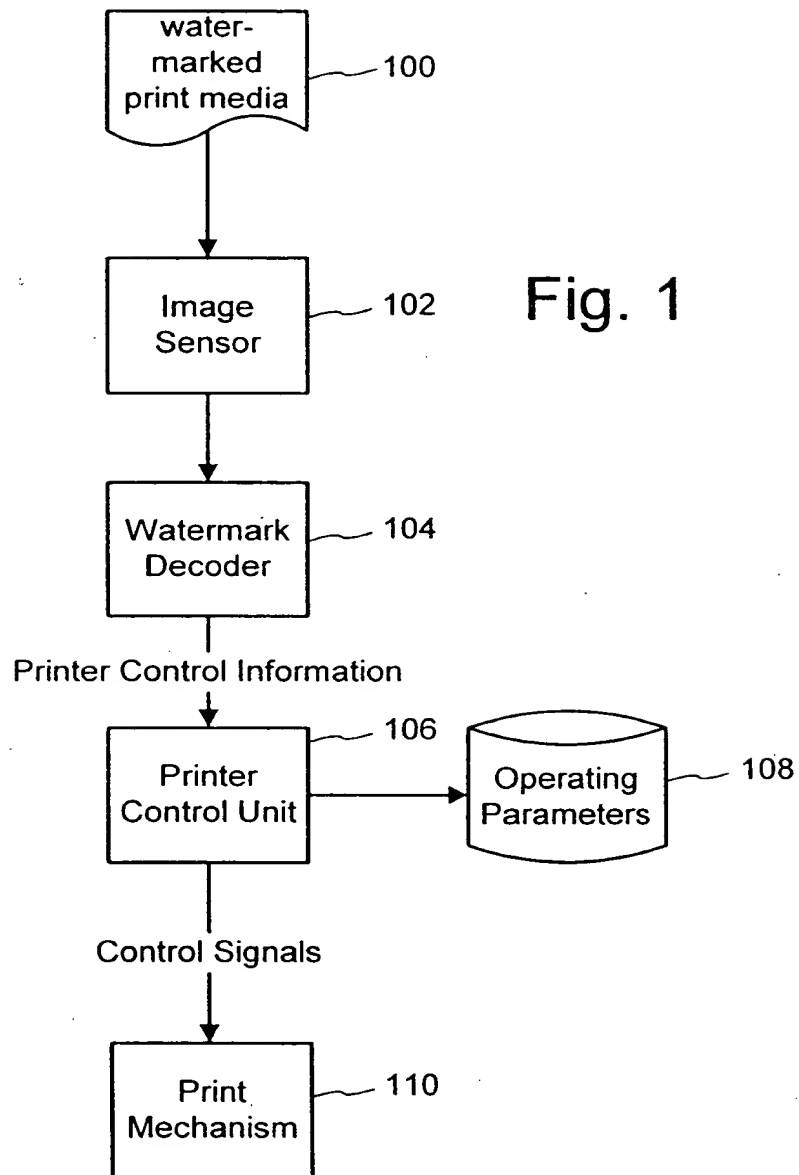
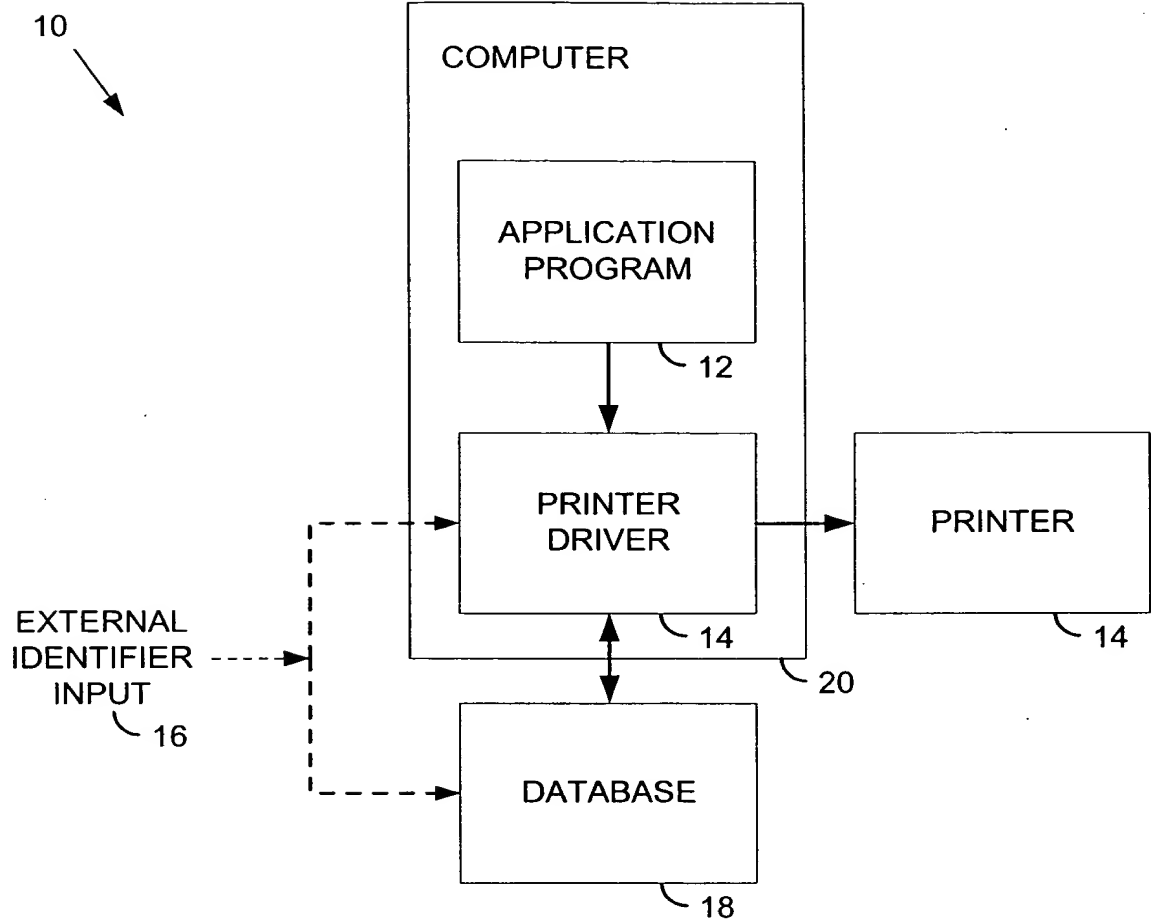


Fig. 1



**FIG. 1**

## Customer Support

Find all the information you need to start using Digimarc MediaBridge.

Frequently asked questions about Digimarc MediaBridge:  
how it works, what it can do, and how to get the most out of it.

If you have questions or comments about Digimarc MediaBridge, we're here to help. Please direct your emails to Customer Care Group or call 1-877-477-9992 and ask for Digimarc MediaBridge Customer Service.

We recommend the following Intel cameras:

Intel PC Camera Pro Pack  
Intel PC Camera Pack

These cameras are approved for Digimarc MediaBridge use:

Intel PC Camera Pro Pack  
Intel PC Camera Pack  
Philips Vesta Pro (PCVC680K)  
Philips Vesta (PCVC675K)  
3Com HomeConnect - (Mac users, Click here for camera drivers)

See which cameras work with your operating system.

**Fig. 2**

IDENTIFIER	TEXT EXCERPT	ASSOCIATED HYPERLINK
186282A	Frequently asked questions about Digimarc MediaBridge:	<a href="http://www.digimarc.com/mediabridge/mbco_csfaq.shtml">http://www.digimarc.com/mediabridge/mbco_csfaq.shtml</a>
186282B	<u>Customer Care Group</u>	<a href="mailto:helpdesk@digimarc.com">mailto:helpdesk@digimarc.com</a>
186282C	<u>Intel PC Camera Pro Pack</u>	<a href="http://www.intel.com/pccamera/index.htm?iid=prodinfo+video03&amp;">http://www.intel.com/pccamera/index.htm?iid=prodinfo+video03&amp;</a>
186282D	<u>Intel PC Camera Pack</u>	<a href="http://www.intel.com/pccamera/pack.htm?iid=prodinfo+video03&amp;">http://www.intel.com/pccamera/pack.htm?iid=prodinfo+video03&amp;</a>
186282E	<u>Click here</u>	<a href="http://www.3com.com/client/pcd/homeconnect/pcdigital/drivers.html#b">http://www.3com.com/client/pcd/homeconnect/pcdigital/drivers.html#b</a>
186282F	<u>See</u>	<a href="http://www.digimarc.com/mediabridge/mbco_cmatrix.shtml">http://www.digimarc.com/mediabridge/mbco_cmatrix.shtml</a>

Fig. 3

Figure 1

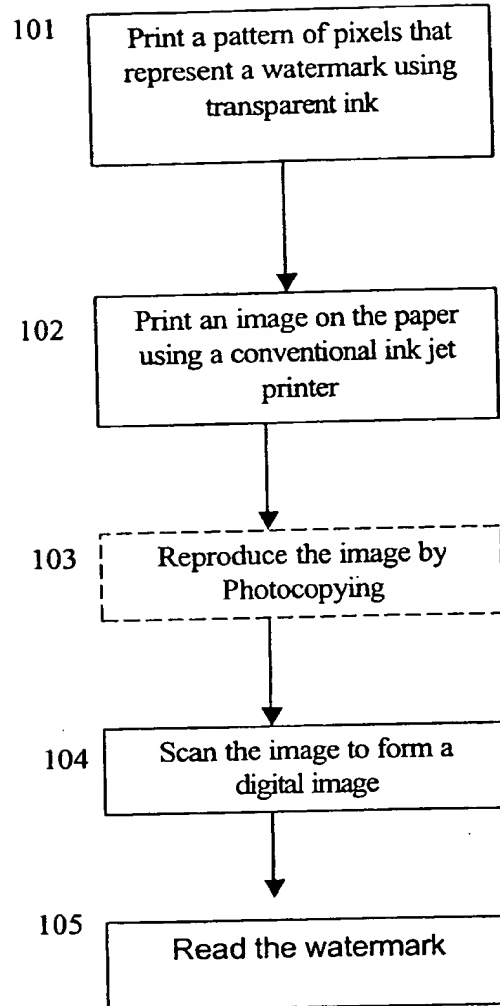
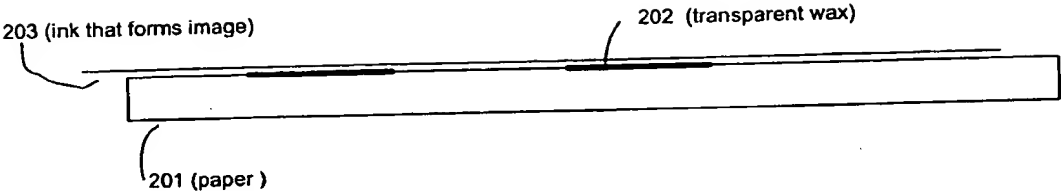
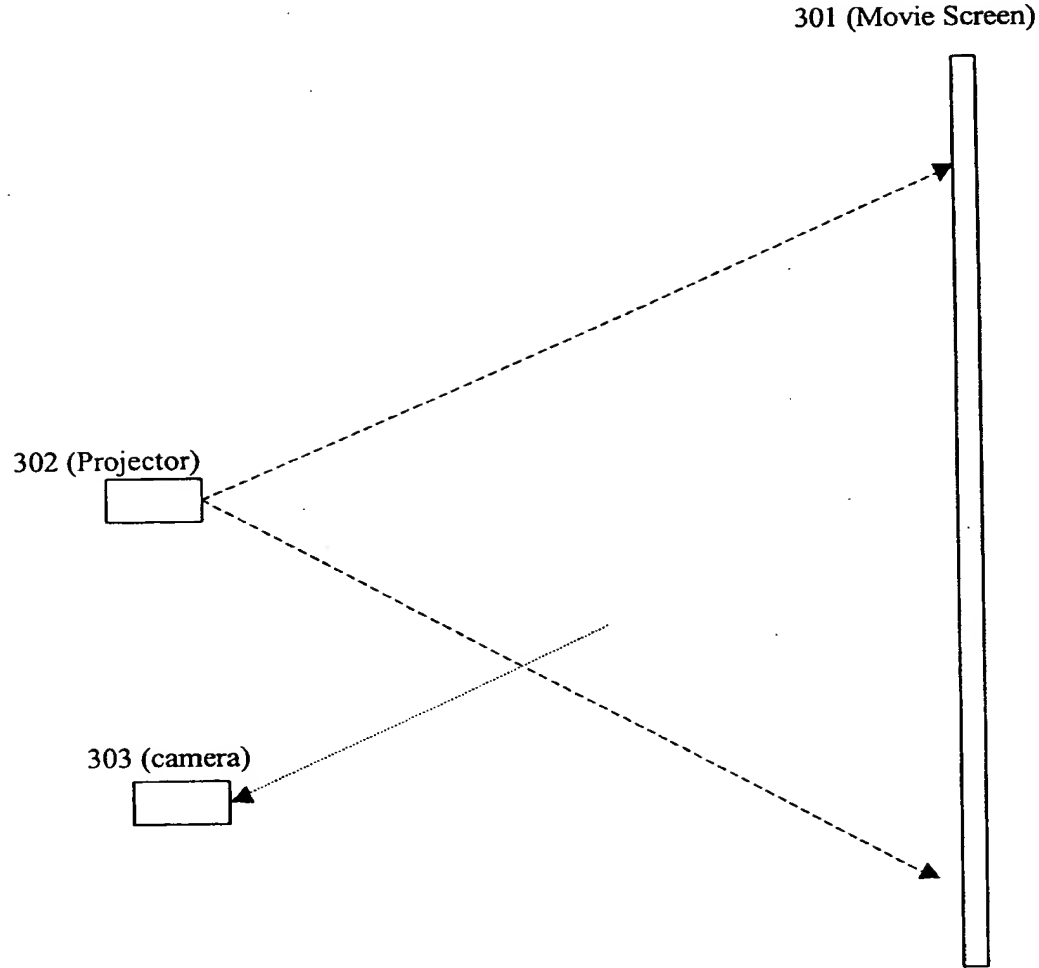


Figure 2



2024-03-04 10:40:00

Figure 3



0901366-031504  
FOUO 9521850



Figure 4

